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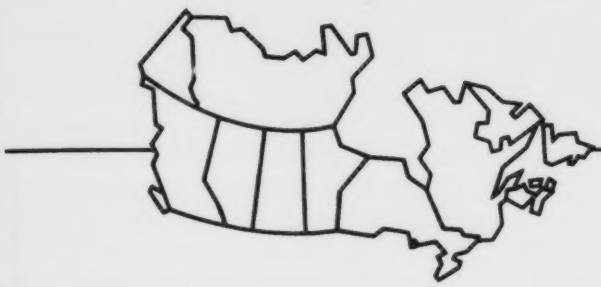
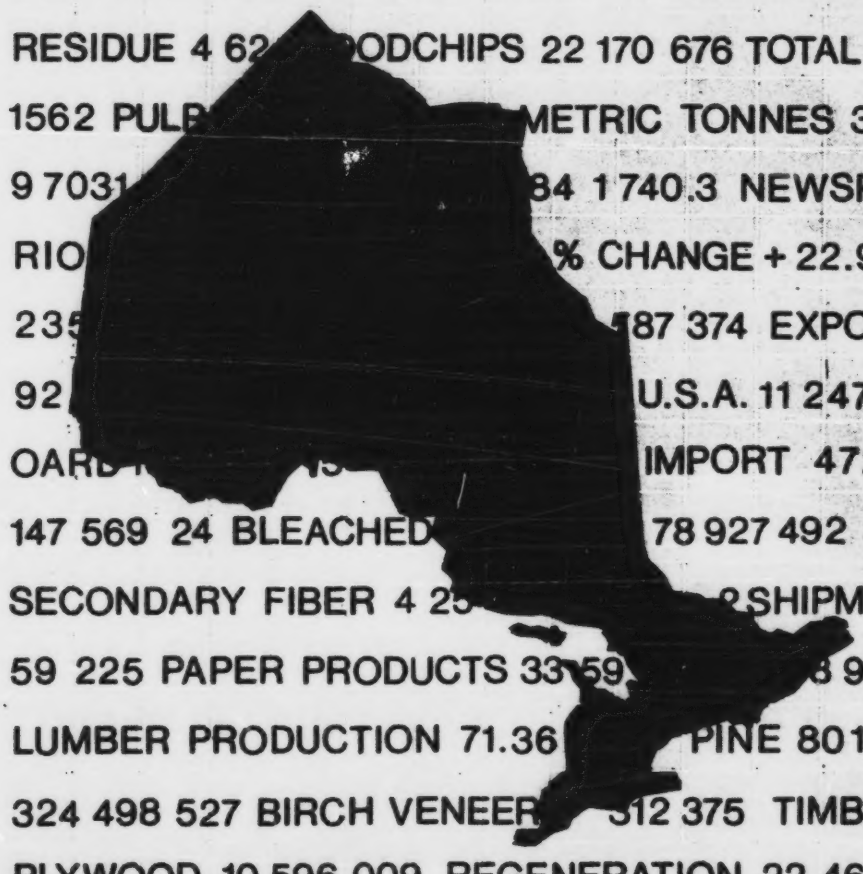
Selected Forestry Statistics, Ontario: 1987

J. H. Smyth and K. L. Campbell

Information Report O-X-387
Great Lakes Forestry Centre




592 HARDWOOD 1 804 876 SOFTWOOD 9 400 38
RESIDUE 4 62 ODCHIPS 22 170 676 TOTAL 56
1562 PULP METRIC TONNES 329
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RIO % CHANGE + 22.9 5
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92 U.S.A. 11 247 U.
OARD IMPORT 472 3
147 569 24 BLEACHED 78 927 492 $ 8
SECONDARY FIBER 4 25 SHIPMEN
59 225 PAPER PRODUCTS 33 59 965
LUMBER PRODUCTION 71.36 PINE 80147
324 498 527 BIRCH VENEER 312 375 TIMBER
PLYWOOD 10 596 009 REGENERATION 22 465 1

FORSTATS

GREAT LAKES FORESTRY CENTRE

The Great Lakes Forestry Centre is one of six regional establishments located across Canada and operated by the Canadian Forestry Service. The overall objective of the Service is to promote the preservation, enhancement and wise use of a healthy, attractive and bountiful forest resource and terrestrial environment for the economic and social benefit of all Canadians. The Centre pursues this objective by conducting two major programs: research and technical services and forestry development. Both programs address major problems affecting forest management and the forest environment primarily in Ontario, but because of the transprovincial nature of the forest resource, many elements of our research program are of national significance.

The Centre specializes in research in forest production, forest protection, forest environment and forest utilization. These programs deal directly with the issue of maintaining and enhancing the resource supply. Activities range from basic to applied and developmental research, and include a significant technology transfer component.

Major activities in forestry development include federal management responsibility for federal-provincial forest management agreements, participation in the National Forestry Statistics program and forest economics research.

Close working relationships are maintained with the Ontario Ministry of Natural Resources, the forest industry, educational institutions specializing in forestry and the biological sciences, and other forestry organizations within the province. The Centre is represented on the Ontario Forestry Council and the Ontario Forestry Research Committee, which have responsibility for coordinating forestry research in Ontario.

It is recognized that forested land must be managed in the best public interest, not only for the wood production essential to our economy, but also for the recreational purposes that are so important to our social well-being. This must be achieved in a manner that will maintain or improve the quality of the forest environment and preserve it for generations to come.

SELECTED FORESTRY STATISTICS, ONTARIO: 1987

J.H. SMYTH and K.L. CAMPBELL

GREAT LAKES FORESTRY CENTRE

CANADIAN FORESTRY SERVICE

GOVERNMENT OF CANADA

1987

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ABSTRACT

Selected Forestry Statistics, Ontario: 1987 contains ready references and valuable information for members of the forestry community and other interested individuals seeking quantitative data on Ontario's forest sector.

Included are statistics on forest management, the forest industry, commodity production and trade, principal statistics by industry group, price indices, financial data, and information on the Canada-Ontario Forest Resource Development Agreement and forest sector collective bargaining settlements.

RÉSUMÉ

Selected Forestry Statistics, Ontario: 1987 est un recueil d'informations facile à consulter qui sera utile aux forestiers et aux autres personnes intéressées à obtenir des données quantitatives sur le secteur forestier en Ontario.

Il s'agit d'un recueil de statistiques concernant l'aménagement des forêts, l'industrie, la production et le commerce des produits forestiers, les statistiques principales de divers groupes composant l'industrie, les indices des prix, les données financières, et les renseignments sur l'Entente Canada-Ontario sur la mise en valeur de la ressource forestière et les conventions collectives.

The FORSTATS (FORestry STATisticS) Program of the Canadian Forestry Service provides current statistical information on Canada's forest resources, including periodic descriptions and analyses of forest inventory and growth; losses from insects, diseases, and fire; nursery production and silvicultural practice; and social and economic conditions.

The following federal government establishments participate in the FORSTATS Program: Canadian Forestry Service Headquarters in Hull, Que., the Pacific Forestry Centre in Victoria, B.C., the Northern Forestry Centre in Edmonton, Alta., the Great Lakes Forestry Centre in Sault Ste. Marie, Ont., the Laurentian Forestry Centre in Ste-Foy, Que., CFS Maritimes in Fredericton, N.B., the Newfoundland Forestry Centre in St. John's, Nfld., the Petawawa National Forestry Institute in Chalk River, Ont., and the Forest Pest Management Institute in Sault Ste. Marie, Ont. Provincial forestry agencies, other provincial and federal agencies, and the forest industry cooperate in providing data for the program.

FOREWORD

Selected Forestry Statistics, Ontario: 1987 contains a series of tables on Ontario's forest industry, its forest resources and related management activities, depletion, commodity production and trade, employment statistics, principal statistics by industry group, and other related data that will be of interest to members of Ontario's forest community.

Over 60 tables are included in the report. Data have been extracted from a variety of provincial and federal government reports and from other sources. A number of figures have been included to assist the reader in visualizing the data presented in tabular form.

The section that provides information on Ontario's forest resource contains a glossary of forest inventory terms to assist the reader in understanding and interpreting the information provided. A number of tables present information that is based on the eight Ontario Ministry of Natural Resources' administrative regions. Readers who are not familiar with these regions should refer to the map provided in the Appendix.

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APPENDIX

SECTION I

FOREST INDUSTRY

Table 1.1. **Pulp and paper mills.**

Company	Controlling ownership	Products manufactured and capacity	Approximate number of employees
1. Abitibi-Price Inc. Fort William Div. P.O. Box 160 Thunder Bay, P7B 4V8 807-623-6486	Olympia & York Developments Ltd. (Toronto)	newsprint 430 tonnes/day	350
2. Abitibi-Price Inc. P.O. Box 550 Iroquois Falls P0K 1E0 705-258-3931	Olympia & York Developments Ltd. (Toronto)	newsprint 800 tonnes/day	1 015
3. Abitibi-Price Inc. Thunder Bay Div. P.O. Box 2390 Thunder Bay, P7B 5E9 807-863-6235	Olympia & York Developments Ltd. (Toronto)	newsprint 450 tonnes/day	375
4. Abitibi-Price Inc. Provincial Papers Division P.O. Box 2450 Thunder Bay, P7B 5E9 807-683-2110	Olympia & York Developments Ltd. (Toronto)	fine papers 370 tonnes/day	850
5. Atlantic Packaging Products Ltd. 11 Progress Ave. Scarborough, M1P 2Y9 416-298-8101	Granovsky family (Toronto)	paper/board 350 tonnes/day tissue 60 tonnes/day	470
6. Beaver Wood Fibre Company Ltd. Thorold, L2V 3Z8 416-227-6651	Georgia Pacific International Corporation (Atlanta, Georgia)	paper/board 100,000 tonnes/year	185
7. Belkin Paperboard 495 Commissioners St. Toronto, M4M 1A5 416-461-8161	Keycorp Industries Ltd. (Burnaby, B.C.)	paper/board 325 tonnes/day	225

(cont'd)

Table 1.1. **Pulp and paper mills** (cont'd).

Company	Controlling ownership	Products manufactured and capacity	Approximate number of employees
8. Boise Cascade Canada Ltd. 145 Third Street W. Fort Frances, P9A 3N2 807-274-5311	Boise Cascade Corp. (Boise, Idaho)	bleached softwood kraft pulp 550 tonnes/day groundwood specialty 730 tonnes/day	895
9. Boise Cascade Canada Ltd. P.O. Box 5000 Kenora, P9N 3Y1 807-468-6411	Boise Cascade Corp. (Boise, Idaho)	groundwood pulp 600 tonnes/day unbleached sulphite pulp 300 tonnes/day newsprint 700 tonnes/day	830
10. Dominion Cellulose Ltd. 1551 Weston Road Toronto, M6M 4Y4 416-243-3011	CIP Inc. (Montreal, Quebec)	tissues 250 tonnes/day	550
11. Domtar Inc. 800 Second Street W. Cornwall, K6H 5S3 613-932-6620	La Caisse de Dépot et Placement du Québec & DOFOR (Montreal, Quebec)	bleached kraft pulp 450 tonnes/day fine papers paperboard 825 tonnes/day	1 500
12. Domtar Inc. Red Rock, P0T 2P0 807-886-2211	La Caisse de Dépot et Placement du Québec & DOFOR (Montreal, Quebec)	newsprint 200 tonnes/day linerboard 600 tonnes/day	700
13. Domtar Inc. 343 Glendale Ave. St. Catharines, L2T 2L9 416-227-3731	La Caisse de Dépot et Placement du Québec & DOFOR (Montreal, Quebec)	fine paper/board 200 tonnes/day	313

(cont'd)

Table 1.1. **Pulp and paper mills** (cont'd).

Company	Controlling ownership	Products manufactured and capacity	Approximate number of employees
14. Domtar Inc. 7447 Bramalea Road Mississauga, L5S 1C4 416-671-2940	La Caisse de Dépot et Placement du Québec & DOFOR (Montreal, Quebec)	linerboard 265 tonnes/day	115
15. Domtar Inc. Box 606, Station "J" Toronto, M4J 4Y4 416-425-3111	La Caisse de Dépot et Placement du Québec & DOFOR (Montreal, Quebec)	fine paper/board 38 tonnes/day	100
16. Domtar Packaging P.O. Box 807 Trenton, K8V 5R8 613-392-6505	La Caisse de Dépot et Placement du Québec & DOFOR (Montreal, Quebec)	semichemical pulp 150 tonnes/day corrugating medium 280 tonnes/day	140
17. E.B. Eddy Forest Products Ltd. P.O. Box 600 Hull, Quebec J8X 3Y7 613-725-6700	Eddy Paper Company (Ottawa, Ontario)	fine and specialty paper 168 tonnes/day	485
18. E.B. Eddy Forest Products Ltd. Espanola, P0P 1C0 705-869-2020	Eddy Paper Company (Ottawa, Ontario)	bleached and unbleached kraft pulp 830 tonnes/day fine and specialty paper 108 tonnes/day	1 008
19. Fraser Inc. P.O. Box 1046 Thorold, L2V 3Z7 416-227-5271	Noranda Inc. (Toronto, Ontario)	paper/board 275 tonnes/day	650
20. Great Lakes Forest Products Ltd. Box 430 Dryden, P8N 2Z7 807-223-2323	Canadian Pacific Enterprises Ltd. (Calgary, Alberta)	bleached kraft pulp 720 tonnes/day fine & specialty paper 265 tonnes/day	1 383

(cont'd)

Table 1.1. **Pulp and paper mills** (cont'd).

Company	Controlling ownership	Products manufactured and capacity	Approximate number of employees
21. Great Lakes Forest Products Ltd. P.O. Box 430 Thunder Bay, P7C 4W3 807-475-2110	Canadian Pacific Enterprises Ltd. (Calgary, Alberta)	bleached kraft pulp 1,280 tonnes/day newsprint 1,170 tonnes/day	3 132
22. James River-Marathon Inc. Marathon, P0T 2E0 807-229-1200	James River Corp. (Richmond, Virginia)	bleached kraft pulp 500 tonnes/day	450
23. Kimberly-Clark of Canada Ltd. P.O. Box 790 Huntsville, P0A 1K0 705-789-4487	Kimberly-Clark Corp. (Neenah, Wisconsin)	tissues 100 tonnes/day	185
24. Kimberly-Clark of Canada Ltd. St. Catharines, L2T 2L9 416-227-1161	Kimberly-Clark Corp. (Neenah, Wisconsin)	tissues, specialty papers 90 tonnes/day	215
25. Kimberly-Clark of Canada Ltd. Terrace Bay, P0T 2W0 807-825-3211	Kimberly-Clark Corp. (Neenah, Wisconsin)	bleached sulphate pulp 1,135 tonnes/day	937
26. MacMillan Bloedel Ltd. Sturgeon Falls, P0H 2G0 705-753-2170	Noranda Inc. (Toronto, Ontario)	corrugating medium 200 tonnes/day hardboard (1/8") 463,000 ft^2/day	400
27. Nordfibre Co. Box 910 North Bay, P1B 8K1 705-474-2300	Frank Orsi family	insulating board 120 tonnes/day	110
28. Ontario Paper Co. Thorold, L2V 3Z5 416-227-1121	Tribune Company (Chicago, Illinois)	paper 765 tonnes/day	1 000

(cont'd)

Table 1.1. **Pulp and paper mills** (concl.).

Company	Controlling ownership	Products manufactured and capacity	Approximate number of employees
29. Spruce Falls Power & Paper Co. Ltd. P.O. Box 100 Kapuskasing, P5N 2Y2 705-337-1311	Kimberly-Clark Corp. (Neenah, Wisconsin) New York Times (New York, New York)	newsprint 1,000 tonnes/day	1 900
30. Strathcona Paper Company P.O. Box 130 Napanee, K7R 3L6 613-378-6672	Roman Corp. Ltd. (Toronto, Ontario)	boxboard 140 tonnes/day	240
31. St. Marys Paper Inc. 75 Huron Street Sault Ste. Marie, P6A 5P4 705-942-6070	Northam Inc. Shieldings Investments Ltd. Nordic American Banking Corp.	groundwood specialty papers 80 tonnes/day supercalender paper 210 tonnes/day	486
32. Sunoco Ltd. 33 Park Avenue E. Box 1208 Brantford, N3T 5T5 519-752-6591	Sunoco International Inc. (South Carolina)	paper/board 91 tonnes/day	240
33. Trent Valley Paperboard Mills Box 821 Trenton, K8V 5R8 613-392-1231	Paperboard Industries Corporation (Trenton, Ontario)	paper/board 273 tonnes/day	290
34. Waferboard Corp. Ltd. Smooth Rock Falls, P0L 2B0 705-338-4910	Waferboard Corp. Ltd. (Timmins, Ontario)	bleached kraft pulp 300 tonnes/day	300

Sources: Anon. 1987. Pulp and Paper Canada Annual and Directory. Southam Business Publications. Westmount, Que. 275 p.

Anon. 1987. Directory 87. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 96. p.

Andersen, S., and Brownwright, A.J. 1985. Ontario pulp and paper industry: corporate ownership. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Misc. Rep. No. 31. 108 p.

Table 1.2. **Major sawmills.**

Company	Products manufactured and average daily production	Approximate number of employees
1. Atikokan Forest Products Inc. Atikokan, P0T 1C0 807-929-2521	dimension lumber 566 m^3/day	130
2. A & L Lafreniere Lumber Ltd. P.O. Box 340 Chapleau, P0M 1K0 705-864-1060	dimension lumber 378 m^3/day	175
3. Chapleau Forest Products Ltd. P.O. Box 280 Chapleau, P0M 1K0 705-864-1320	dimension lumber 354 m^3/day	120
4. Consolidated Bathurst Inc. Braeside, K0A 1G0 613-623-4211	dimension lumber 472 m^3/day	230
5. Custom Sawmill (Hearst) Ltd. Box 460 Hearst, P0L 1N0 705-362-4217	dimension lumber 826 m^3/day	325
6. Domtar Inc. Box 2000 White River, P0M 3G0 807-822-2100	dimension lumber 307 m^3/day	350
7. Dubreuil Brothers Ltd. Pine St. Dubreuilville, P0S 1B0 705-884-2525	dimension lumber 826 m^3/day	350
8. E.B. Eddy Forest Products Ltd. Ontario Wood Products Division Nairn Centre, P0M 2L0 705-869-4020	dimension lumber, studs, mining timber 1,652 m^3/day	255
9. E.B. Eddy Forest Products Ltd. McChesney Lumber Division P.O. Box 150 Timmins, P4N 7C9 705-264-2244	dimension lumber, squares, studs 425 m^3/day	150

(cont'd)

Table 1.2. **Major sawmills** (cont'd).

	Company	Products manufactured and average daily production	Approximate number of employees
10.	Elk Lake Planing Mill Ltd. Box 9 Elk Lake, P0J 1G0 705-678-2110	dimension lumber 590 m^3/day	105
11.	Great Lakes Forest Products Ltd. Box 3001 Dryden, P8N 2Z7 807-223-2323	2 x 4 studs 625 m^3/day	105
12.	Great Lakes Forest Products Ltd. Box 430 Thunder Bay, P7C 4W3 807-475-2110	2 x 4 studs 1,062 m^3/day	80
13.	Great West Timber Ltd. Box 3170 Thunder Bay, P7C 4W3 807-344-8464	dimension lumber 944 m^3/day	500
14.	Lecours Lumber Co. Ltd. P.O. Box 9000 Hearst, P0L 1N0 705-362-4369	dimension lumber 590 m^3/day	220
15.	McKenzie Forest Products Inc. Box 190 Hudson, P0V 1X0 807-582-3271	2 x 4 studs 850 m^3/day	140
16.	Murray Brothers Lumber Co. Ltd. Barry's Bay, K0J 1B0 613-637-2840	dimension lumber, chips, shavings 590 m^3/day	240
17.	Normick Perron Inc. Box 1059 Cochrane, P0L 1C0 705-272-4321	2 x 4 studs dimension lumber 656 m^3/day	285 (includes particle-board mill

(cont'd)

Table 1.2. **Major sawmills** (concl.).

Company	Products manufactured and average daily production	Approximate number of employees
18. Normick Perron Inc. Box 1120 Kirkland Lake, P2N 3M7 705-642-3216	2 x 4 and 2 x 3 studs 519 m^3/day	110
19. Northern Wood Preservers Inc. Box 2990 Thunder Bay, P7B 5G5 807-344-8451	dimension lumber ties, poles 944 m^3/day	350
20. United Sawmill Ltd. Box 880 Hearst, P0L 1N0 705-362-4227	dimension lumber 826 m^3/day	250

Conversion factor: 1000 fbm = 2.35974 m^3

Sources: Anon. 1987. Ontario forest industry statistical reports for 1985. Ont. Min. Nat. Resour., Toronto, Ont. 65 p.

Anon. 1987. Directory 1987. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 96 p.

Personal communications with representatives of various companies.

Table 1.3. **Panelboard industry.**

Company	Approximate number of employees
Veneer and plywood producers	
1. Birchland Veneer Ltd. Box 430 Thessalon, P0R 1L0 705-842-2430	65
2. Canada Veneers Ltd. Box 460 Pembroke, K8A 6X7 613-735-6801	280
3. Forest Ply Ltd. Division of Silvaplex Box 389 Gravenhurst, P0C 1G0 705-687-3425	35
4. Interforest Ltd. Box 170 Durham, N0G 1R0 519-369-3310	370
5. Levesque Plywood Ltd. Box 10 Hearst, P0L 1N0 705-362-4242	265
6. MacMillan Bloedel Ltd. Box 910 Nipigon, P0T 2J0 807-887-2018	130
7. G. W. Martin Veneer Ltd. Box 190 Tweed, K0K 3J0 613-478-2140	50
8. G. W. Martin Veneer Ltd. Rutherglen, P0H 2E0 705-776-2948	200

(cont'd)

Table 1.3. **Panelboard industry** (cont'd).

Company	Approximate number of employees
Veneer and plywood producers (cont'd)	
9. G.W. Martin Veneer Ltd. 45 Third Line West Sault Ste. Marie, P6A 5P7 705-759-1500	310
10. G.W. Martin Veneer Ltd. (Hwy. 556, Searchmont) Box 1029 Sault Ste. Marie, P6A 5N5 705-781-2511	140
11. Normick Perron Inc. Box 1059 Cochrane, P0L 1C0 705-272-4321	285 (includes sawmill)
12. Pannill Veneer Co. Ltd. 340 Louisa St. Kitchener, N2H 5N2 519-742-5887	190
13. Superior Hardwood Veneer Ltd. R.R. # 4, Gran St. Sault Ste. Marie, P6A 5K9 705-759-0904	36
14. Weldwood of Canada Ltd. Longlac, P0T 2A0 807-876-2796	300 (includes waferboard mill)
15. Wilberforce Veneer and Lumber Company Box 130 Wilberforce, K0L 3C0 705-448-2520	45

(cont'd)

Table 1.3. **Panelboard industry** (cont'd).

Company	Approximate number of employees
Veneer and plywood producers (cont'd)	
16. Wilkinson Sword Canada Ltd., Splint Division Eddy Match 100 Crandall Street Pembroke, K8A 6X8 613-735-2900	52
Particleboard producers	
1. Domtar Inc. Box 7500 Huntsville, P0A 1K0 705-789-9683	144
2. Levesque Plywood Ltd. Box 10 Hearst, P0L 1N0 705-362-4242	265 (includes plywood plant)
3. Pluswood Manufacturing Ltd. Box 1600 Atikokan, P0T 1C0 807-597-6921	130
4. Rexwood Products Ltd. Box 1840 New Liskeard, P0J 1P0 705-647-6775	150
5. Waferboard Corporation Ltd. Box 1100 Timmins, P4N 7J3 705-268-1462	165 (includes waferboard mill)

(cont'd)

Table 1.3. **Panelboard industry** (concl.).

Company	Approximate number of employees
Waferboard producers	
1. Grant Waferboard Ltd. Box 960 Englehart, P0J 1H0 705-544-2204	160
2. MacMillan Bloedel Ltd. Box 608 Thunder Bay, P7C 4W6 807-939-2541	150
3. Waferboard Corp. Ltd. Box 1100 Timmins, P4N 7H9 705-268-1462	165 (includes particle-board)
4. Weldwood of Canada Ltd. Longlac, P0T 2A0 807-876-2796	300 (includes veneer & plywood mill)

Sources: Anon. 1986. Ontario forest industry statistical reports for 1985. Ont. Min. Nat. Resour., Toronto, Ont. 65 p.

Anon. 1987. Directory 1987. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 96 p.

Personal communications with representatives of various companies.

SECTION II

FOREST INVENTORY

Glossary of inventory terms[a].

Forest Inventory

A survey of an area to determine such data as area, condition, timber, volume and species, for specific purposes such as planning, purchasing, evaluating, managing, or harvesting.

Gross Merchantable Volume

Volume of the main stem of trees or stands, excluding stump and top but including defective and decayed wood.

Gross Total Volume

Volume of the main stem of trees or stands, including stump and top as well as defective and decayed wood.

Production Forest

All productive forest land managed primarily for growing timber for industry, unless otherwise reassigned.

Production Forest Reserve

Production forest stands which in the opinion of photo interpreters may constitute a logging or silvicultural problem.

Productive Forest Land

All forest areas capable of growing commercial timber.

Protection Forest

All productive forest land managed primarily to exert beneficial influence on soil, water, and the overall landscape.

Volume

The amount of wood in a tree, stand, or other specified area, according to some unit of measurement or some standard of use.

Working Group

An aggregate of stands, including potential forest areas assigned to this category, having the same predominant species, and managed under the same rotation and broad silvicultural system.

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[a] Source: Anon. 1986. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 100 p.

Table 2.1. **Area classification.**

	Provincial crown (ha)	Patent (ha)	Federal (ha)	Total (ha)
Water	8 065 218	2 395	416 034	8 483 647
Non-forested	212 063	6 457 475	305 010	6 974 548
Non-productive	4 990 732	647 358	542 919	6 181 009
Productive	33 646 186	5 898 224	383 109	39 927 519
Total	46 914 199	13 005 452	1 647 072	61 566 723

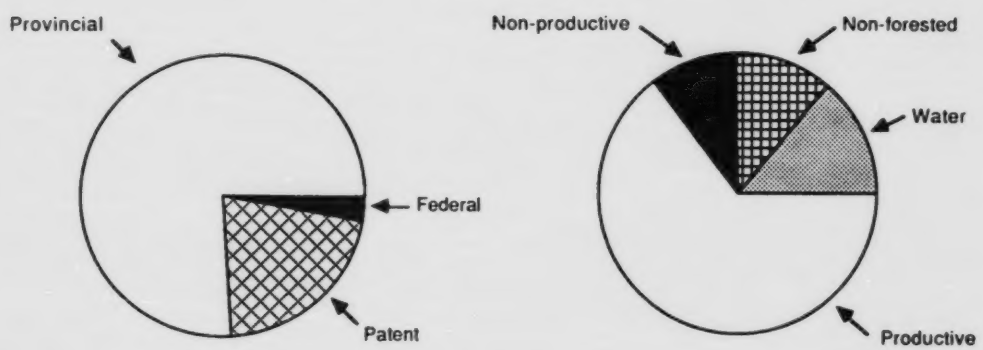


Figure 1. Area classification.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 100 p.

Table 2.2. **Productive forest land, by ownership.**

	Provincial crown (ha)	Patent (ha)	Federal (ha)	Total (ha)
Protection forest	1 917 874	237 860	39 371	2 195 105
Production forest reserve	2 146 166	252 569	26 603	2 425 338
Production forest	29 582 146	5 407 795	317 135	35 307 076
Total	33 646 186	5 898 224	383 109	39 927 519

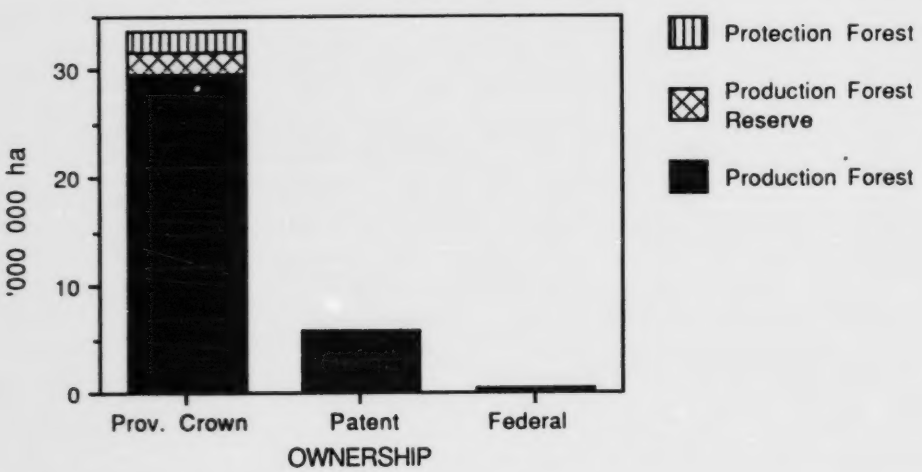


Figure 2. Productive forest land, by ownership.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.3. **Gross total volume of production forest, by ownership.**

Ownership	Production forest reserve (m^3)	Production forest (m^3)	Total (m^3)
Provincial crown	235 368 370	3 940 920 216	4 176 288 586
Recreation reserve	3 528 253	23 733 663	27 261 916
Provincial park	9 006 421	180 221 424	189 227 845
Sub-total **provincial crown**	247 903 044	4 144 875 303	4 392 778 347
Patent	24 301 207	631 876 039	656 167 246
Agreement forest	398 286	10 444 756	10 843 042
Sub-total **patent**	24 699 493	642 320 795	667 020 288
Indian reserve	3 296 009	17 059 031	20 355 040
Other federal	40 830	22 647 774	22 688 604
Sub-total **federal crown**	3 336 839	39 706 805	43 043 644
Total	275 939 376	4 826 902 903	5 102 842 279

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.4. Area and gross total volume of production forest, by ownership, OMNR administrative region and major forest type.

Region/ownership	Softwoods		Intolerant hardwoods		Tolerant hardwoods		Total	
	Area (ha)	Volume (m^3)	Area (ha)	Volume (m^3)	Area (ha)	Volume (m^3)	Area (ha)	Volume (m^3)
Northwestern								
Provincial	8 233 007	1 041 778 413	1 191 945	212 849 147	10 706	1 249 732	9 435 658	1 255 877 292
Patent	116 704	12 496 231	138 222	18 978 099	8 247	749 896	263 173	32 224 226
Federal	58 062	7 351 025	39 926	6 788 479	2 411	349 749	100 399	14 489 253
Total	8 407 773	1 061 625 669	1 370 093	238 615 725	21 364	2 349 377	9 799 230	1 302 590 771
North Central								
Provincial	5 457 543	710 517 783	1 893 167	311 095 188	1 630	183 768	7 352 340	1 021 796 739
Patent	189 382	22 403 652	231 416	33 367 226	1 081	117 372	421 879	55 888 250
Federal	8 742	1 163 355	7 946	1 507 720	374	47 299	17 062	2 718 374
Total	5 655 667	734 084 790	2 132 529	345 970 134	3 085	348 439	7 791 281	1 080 403 363
Northern								
Provincial	6 508 523	862 670 587	2 138 431	336 183 769	27 664	3 751 980	8 674 618	1 202 606 336
Patent	398 205	44 956 083	266 667	34 390 691	7	654	664 879	79 347 428
Federal	3 721	340 303	1 575	182 531	0	0	5 296	522 834
Total	6 910 449	907 966 973	2 406 673	370 756 991	27 671	3 752 634	9 344 793	1 282 476 598
Northeastern								
Provincial	2 072 563	290 864 360	1 738 898	239 814 682	702 283	111 456 400	4 513 744	642 135 442
Patent	384 706	42 880 905	437 673	50 574 833	282 432	44 848 895	1 104 811	138 304 633
Federal	69 045	9 160 008	125 978	12 337 805	14 264	2 506 738	209 287	24 004 551
Total	2 526 314	342 905 273	2 302 549	302 727 320	998 979	158 812 033	5 827 842	804 444 626
Algonquin								
Provincial	436 993	71 053 264	345 390	53 961 248	688 206	106 424 248	1 470 589	231 438 760
Patent	235 899	30 808 073	180 308	25 596 034	619 873	91 671 571	1 036 080	148 075 678
Federal	18	848	7	1 579	0	0	25	2 427
Total	672 910	101 862 185	525 705	79 558 861	1 308 079	198 095 819	2 506 694	379 516 865
Eastern								
Provincial	54 782	10 448 581	38 328	6 393 063	131 380	15 038 659	224 490	31 880 303
Patent	287 252	27 955 207	101 293	11 545 460	551 053	50 160 425	939 598	89 661 092
Federal	521	41 881	301	26 328	1 013	72 870	1 835	141 079
Total	342 555	38 445 669	139 922	17 964 851	683 446	65 271 954	1 165 923	121 682 474
Central								
Provincial	8 936	1 233 475	6 285	1 019 962	21 711	2 260 042	36 932	4 513 479
Patent	248 276	21 806 942	117 206	14 024 421	295 589	30 399 183	661 071	66 230 546
Federal	2 427	323 055	3 417	584 845	2 478	231 009	8 322	1 138 909
Total	259 639	23 363 472	126 908	15 629 228	319 778	32 890 234	706 325	71 882 934
Southwestern								
Provincial	7 963	1 073 081	3 569	500 295	8 409	956 620	19 941	2 529 996
Patent	126 980	13 642 284	44 021	5 446 642	397 872	38 199 509	568 873	57 288 435
Federal	0	0	1 456	24 779	56	1 438	1 512	26 217
Total	134 943	14 715 365	49 046	5 971 716	406 337	39 157 567	590 326	59 844 648
Totals								
Provincial	22 780 310	2 989 639 544	7 356 013	1 161 817 734	1 591 989	241 321 449	31 728 312	4 392 778 347
Patent	1 987 404	216 949 377	1 516 806	193 923 406	2 156 154	256 147 505	5 660 364	667 020 288
Federal	142 536	18 380 475	180 606	21 454 066	20 596	3 209 103	343 738	43 043 644
Total	24 910 250	3 224 969 396	9 053 425	1 377 194 826	3 768 739	500 678 057	37 732 414	5 102 842 279

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

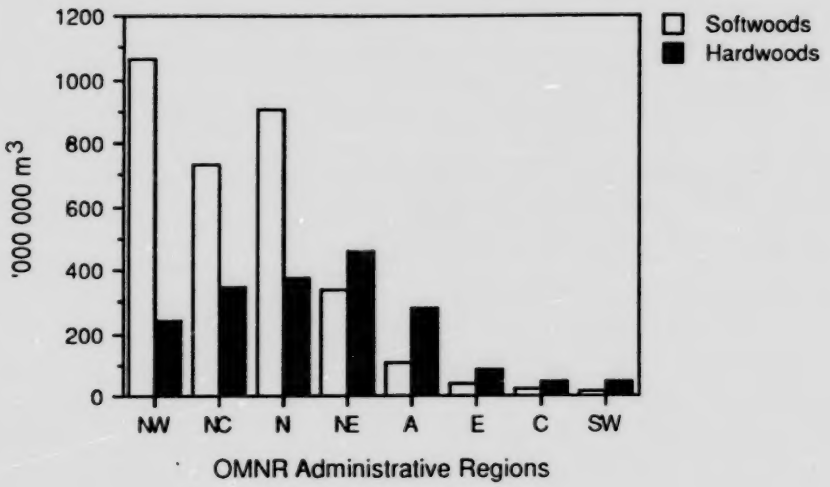


Figure 3. Gross total volume of production forest, by OMNR administrative region and major forest type.

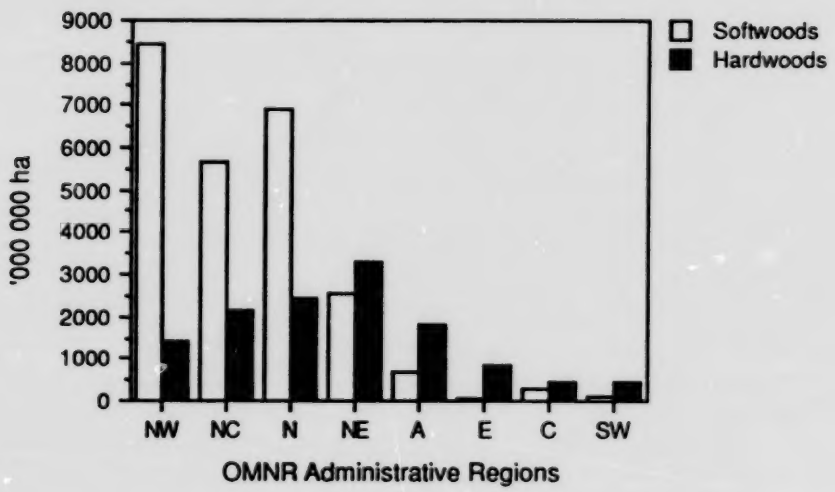


Figure 4. Area of production forest, by OMNR administrative region and major forest type.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.5. Area and gross total volume of production forest and production forest reserve, by softwood working groups.

Working group	Area (ha)	Volume (m^3)
White pine	659 306	111 712 876
Red pine	182 922	22 157 550
Jack pine	4 986 753	652 977 372
Spruce	15 784 074	2 048 820 819
Balsam fir	2 150 235	248 574 878
Hemlock	125 191	22 556 663
Other softwoods	1 021 769	118 169 244
Total softwoods	24 910 250	3 224 969 402

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.6. Area and gross total volume of production forest and production forest reserve, by hardwood working groups.

Working group	Area (ha)	Volume (m^3)
Poplar	5 787 146	1 011 200 056
White birch	3 266 279	365 994 785
Hard maple	2 760 745	384 927 399
Yellow birch	188 109	32 193 980
Other hardwoods	819 885	83 556 673
Total hardwoods	12 822 164	1 877 872 893

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

SECTION III

FOREST DEPLETION

Table 3.1. **Hardwood timber harvested on provincial crown lands, by species, 1976-1986 (m^3).**

Year[a]	Ash	Basswood	Beech	White birch	Yellow birch	Butter-nut	Cherry	Elm	Maple	Oak	Poplar	Mixed	Total[b]
1976	1 076	6 485	9 854	61 504	123 320	c	736	1 614	221 466	7 504	687 164	109 161	1 229 884
1977	1 274	6 088	12 856	63 939	122 838	c	595	878	258 844	6 456	792 672	323 633	1 590 073
1978	1 303	7 759	14 696	66 290	111 115	c	821	623	241 344	8 920	1 059 586	452 984	1 965 497
1979	1 864	12 009	26 846	86 832	121 078	28	1 235	297	292 783	12 194	1 439 082	642 203	2 636 451
1980	2 494	13 897	23 453	96 526	121 990	14	1 243	306	270 417	14 362	1 509 922	677 854	2 732 479
1981	1 519	9 069	15 737	62 557	90 478	16	634	111	178 833	10 845	1 414 955	633 769	2 418 525
1982	2 021	11 042	19 581	77 523	105 982	16	1 373	39	219 345	11 389	1 800 431	647 366	2 896 121
1983	1 558	7 769	18 377	93 562	78 058	36	1 584	165	164 317	10 415	1 505 038	648 316	2 529 198
1984	1 516	8 544	17 999	83 668	94 616	21	2 046	35	204 384	14 190	2 243 088	743 663	3 413 771
1985	3 770	27 777	32 996	180 990	106 382	38	2 269	19	447 911	13 960	2 641 390	852 633	4 310 135
1986	1 956	12 099	39 951	253 340	109 828	43	1 830	18	364 855	23 937	2 768 308	257 607	3 833 773

[a] In year ending 31 March
[b] Totals may not be precise because of rounding.
[c] No volumes recorded

Source: Anon. Statistics 19-- (various issues) Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.2. **Softwood timber harvested on provincial crown lands, by species, 1976-1986 (m^3).**

Year[a]	Balsam	Cedar	Hemlock	Jack pine	Red pine	Scots pine	White pine	Spruce	Tamarack	Mixed	Total[b]
1976	273 002	14 725	47 091	2 726 398	202 720	85	446 754	4 299 283	2 152	19 369	8 031 607
1977	418 522	11 327	53 434	3 823 306	144 444	c	492 627	6 586 516	2 832	2 237	11 535 216
1978	529 184	12 289	58 049	5 010 884	174 205	c	586 894	7 511 569	1 926	7 079	13 892 165
1979	602 451	16 863	79 471	5 507 057	157 209	c	533 606	8 193 427	2 321	36 527	15 128 932
1980	662 803	22 886	64 167	6 207 462	192 051	c	607 311	8 901 496	4 622	9 970	16 672 766
1981	926 677	13 972	59 109	5 927 897	187 494	c	495 271	8 692 652	5 658	10 017	16 318 746
1982	718 975	13 659	63 504	5 362 713	183 663	c	529 159	7 724 772	2 330	18 503	14 617 179
1983	586 883	17 195	47 361	4 135 200	168 759	c	563 024	6 707 133	1 168	30 599	12 257 322
1984	638 428	18 667	65 111	5 182 626	193 575	c	754 044	8 423 622	2 740	20 691	15 299 504
1985	723 544	23 478	79 230	5 618 274	197 854	c	728 257	8 987 681	1 311	14 236	16 373 865
1986	809 984	16 741	71 554	5 578 024	400 155	c	654 854	8 407 276	3 725	18 238	15 764 214

[a] In year ending 31 March
[b] Totals may not be precise because of rounding.
[c] No volumes recorded

Source: Anon. Statistics 19-- (various issues) Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.3. **Area of land harvested, 1981-1986 (ha).**

Year[a]	Crown lands	FMA[b]	Total crown lands	Agreement forests (municipal)	WIA[c]	Other patent lands	Grand total
1981							
Evenaged	166 249	19 180	185 429	165	131	31 437	217 162
Unevenaged	10 948	-	10 948	821	523	13 230	25 522
Total	177 197	19 180	196 377	986	654	44 667	242 684
1982							
Evenaged	146 928	25 366	172 294	79	134	30 280	202 787
Unevenaged	7 229	-	7 229	827	988	15 773	24 817
Total	154 157	25 366	179 523	906	1 122	46 053	227 604
1983							
Evenaged	126 219	42 411	168 630	2 181	151	29 375	200 337
Unevenaged	9 561	-	9 561	219	599	12 475	22 584
Total	135 780	42 411	178 191	2 400	750	41 850	223 191
1984							
Evenaged	110 935	31 116	142 051	1 249	188	9 598	153 086
Unevenaged	12 956	-	12 956	85	842	16 239	30 122
Total	123 891	31 116	155 007	1 334	1 030	25 837	183 208
1985							
Evenaged	116 300	60 689	176 989	573	949	8 808	187 319
Unevenaged	15 479	-	15 478	323	1 265	13 420	30 487
Total	131 779	60 689	192 468	896	2 214	22 228	217 806
1986							
Evenaged	94 877	81 375	176 252	1 418	780	6 722	185 172
Unevenaged	14 054	-	14 054	230	1 622	16 906	32 812
Total	108 931	81 375	190 306	1 648	2 402	23 628	217 984

[a] In year ending March 31
[b] Forest Management Agreements on provincial crown land
[c] Harvesting on lands managed under the Woodlands Improvement Act

Source: Anon. Statistics 19-- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.4. **Losses attributable to forest fires, 1965-1986.**

Year	Crown (ha)	Private (ha)	Total (ha)	No. of fires (ha)
1965	6 068	1 987	8 055	1 218
1966	3 421	2 413	5 834	1 921
1967	23 768	1 930	25 698	1 465
1968	1 078	2 751	3 829	1 219
1969	1 813	669	2 482	901
1970	22 358	1 179	23 537	1 239
1971	40 284	1 689	41 973	1 790
1972	29 802	2 208	32 010	1 604
1973	2 417	1 190	3 607	1 111
1974	522 641	1 346	523 987	1 625
1975	11 226	5 630	16 856	3 146
1976	536 529	7 578	544 107	3 985
1977	411 752	4 564	416 316	2 049
1978	7 040	483	7 523	940
1979	63 322	393	63 715	1 564
1980	524 893	35 847	560 740	1 779
1981	173 479	5 994	179 473	1 656
1982	2 555	1 337	3 892	1 396
1983	442 156	1 499	443 655	2 244
1984	118 851	1 567	120 418	1 240
1985	682	325	1 007	887
1986	143 243	1 869	145 112	1 088

Sources: Anon. Statistics --. Ont. Min. Nat. Resour., Toronto, Ont. Various issues.

Aviation and Fire Management Centre, Sault Ste. Marie, Ont., personal communications.

Table 3.5. **Losses attributable to forest fires, by OMNR administrative region, 1973-1986 (ha).**

Year	North-western	North Central	Northern	North-eastern	Algonquin	Eastern	Central	South-western	Total
1973	1 177	1 428	413	383	108	91	6	1	3 607
1974	436 587	82 198	3 870	771	410	112	34	4	523 987
1975	708	4 242	5 155	4 831	1 269	619	18	14	16 856
1976	360 452	164 761	14 653	3 426	671	140	1	1	544 106
1977	287 200	74 454	40 843	12 485	1 065	229	38	1	416 315
1978	952	4 377	528	616	864	151	8	27	7 523
1979	49 109	13 611	622	96	107	168	2	.1	63 715
1980	374 367	177 276	7 056	1 198	184	197	15	13	560 307
1981	109 841	56 049	12 394	513	318	276	67	14	179 473
1982	1 639	252	422	970	275	233	80	22	3 892
1983	365 248	73 993	3 379	497	340	187	9	.9	443 654
1984	102 051	14 887	2 963	256	159	73	17	11	120 418
1985	117	121	324	159	114	144	10	17	1 006
1986	134 380	4 156	6 302	418	217	65	17	6	145 561

Source: Anon. Statistics 19-- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Aviation and Fire Management Centre, Sault Ste. Marie, Ont., personal communications.

Table 3.6. **Average annual pest-caused losses in Ontario forests[a], 1977-1981.**

Pest	Tree species	Growth (m^3)	Cull (m^3)	Mortality (m^3)	Total (m^3)
			('000)		
Spruce budworm	black spruce	281		1 188	1 469
	white spruce	151		1 539	1 690
	balsam fir	1 027		9 066	10 093
		1 459		11 793	13 252
Forest tent caterpillar	poplar	933			933
	white birch	59			59
	sugar maple	341		653	994
	other	15			15
		1 348		653	2 001
Aspen complex	poplar	155			155
White birch complex	white birch	42			42
Oak complex	red oak	6		36	43
Total, insects		**3 010**		**12 482**	**15 493**
Root rot	conifers	1 088		10 765	11 853
Wood decay	conifers		2 788		2 788
	hardwoods		6 257		6 257
			9 045		9 045
Hypoxylon canker	poplar			6 184	6 184
Sweetfern rust	jack pine	32	17		49
Diebacks	sugar maple			377	377
	white birch			3 702	3 702
	red oak			63	63
				4 142	4 142
Total, diseases		**1 120**	**9 062**	**21 091**	**31 273**
Total, all pests		4 130	9 062	33 573	46 766

[a] Data are expressed as gross total volume.

Source: Gross, H.L. 1985. The impact of insects and diseases on the forests of Ontario. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-366.

Table 3.7. **Spruce budworm and jack pine budworm aerial spray projects, 1987.**

Project base	Treatment area (ha)	No. of spray aircraft	No. of pointer aircraft	Size of staff
Terrace Bay-Hagarty	7 877	2	1	8
Nipigon-Jellico	8 479	2	1	5
Nipigon[a]	16 297	2	1	10
Nipigon-Nonwatin	40 654	3	1	13
Thunder Bay[a]	9 291	6	3	18
Sioux Lookout[a]	293	1	1	9
Spruce budworm totals	82 891	16	8	63
Fort Frances-Worenko	11 670	3	1	20
Kenora-Minaki	50 783	5	2	15
Dryden-Vermilion Bay	27 384	5	2	12
Red Lake-Cochenour	15 206	2	1	15
Jack pine budworm totals	105 043	15	6	62
Cumulative totals	187 934	31	14	125

[a] Mobile

Source: Hansard. Official Report of Debates. Legislative Assembly of Ontario. 29 June, 1987. No. 35.

SECTION IV

FOREST MANAGEMENT

Table 4.1. Silvicultural operations on provincial crown lands, 1981-1986 (ha).

Treatment	Year[a] 1981	1982	1983	1984	1985	1986
Regeneration						
Planting						
Bare-root	18 786	22 561	21 272	21 286	15 527	22 725
Container	4 829	6 357	7 305	17 889	36 963	38 521
Hybrid poplar cuttings	24	31	19	286	100	358
Seeding	47 296	27 869	29 857	21 180	15 908	18 683
Scarification	3 241	1 653	817	1 110	879	1 050
Strip cutting	1 562	2 879	1 445	718	1 145	1 641
Seed tree cutting	3 934	3 100	3 215	4 204	2 489	2 361
Shelterwood cutting	9 794	7 738	9 431	10 308	9 232	8 771
Clear cutting	6 202	4 909	7 552	14 121	8 960	9 437
Total	95 668	77 097	80 913	91 102	91 203	103 547
Retreatment	7 981	2 263	2 353	3 483	3 949	4 462
Tending						
Hand cleaning	4 481	3 686	5 844	6 282	7 696	9 384
Herbicide spraying	25 404	19 668	26 165	21 125	42 023	57 566
Thinning, improvement cuts	8 209	6 679	6 698	6 908	6 591	8 845
Pruning	853	618	756	751	596	934
Fertilization, drainage	166	163	87	207	58	65
Total	39 113	30 814	39 550	35 273	56 964	76 794
Site preparation	51 057	53 289	67 583	74 064	83 808	94 687
Marking	43 390	38 954	37 229	42 301	-	-
Unevenaged management	-	-	-	-	11 769	13 529
Total area treated	237 209	202 417	225 275	242 740	243 744	288 557

[a] For year ending 31 March

Source: Anon. Statistics 19-- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Table 4.2. Silvicultural operations, by ownership, 1986[a] (ha).

Treatment	Provincial Crown land	Forest management agreements[b]	Agreement forests	Private[c]	Other private	Total
Regeneration						
Planting						
Bare-root	11 864	10 861	216	4 757	5 693	33 391
Container	17 911	20 610	42	122	8	38 693
Hybrid poplar cuttings	294	64	65	4	168	595
Seeding	6 949	11 734	12	199	-	18 894
Scarification	501	549	-	-	-	1 050
Strip cutting	906	735	-	-	-	1 641
Seed tree cutting	2 188	173	-	-	-	2 361
Shelterwood cutting	8 771	-	61	2	505	9 339
Clear cutting	5 111	4 326	17	72	48	9 574
Total	54 495	49 052	413	5 156	6 422	115 538
Retreatment	2 509	1 953	60	1 641	51	6 214
Tending						
Hand cleaning	8 780	604	442	1 578	137	11 541
Herbicide spraying	19 223	38 343	660	3 410	191	61 827
Thinning, improvement cuts	8 474	371	1 811	1 847	2 963	15 466
Pruning	931	3	977	963	274	3 148
Fertilization, drainage	6	59	366	4	201	636
Total	37 414	39 380	4 256	7 802	3 766	92 618
Site preparation	45 379	49 308	761	1 995	460	97 903
Unevenaged management	13 508	21	166	928	7 698	22 321
Total area treated	150 797	137 761	5 596	15 881	18 346	328 380

[a] For year ending March 31

[b] Provincial crown land

[c] Lands managed under the Woodlands Improvement Act

Source: Anon. 1985. Statistics 1985. Ont. Min. Nat. Resour., Toronto, Ont.

Table 4.3 **Prescribed burning, by ownership type, 1978-1987 (ha).**

Year[a]	Provincial crown land	Forest management agreements[b]	Total provincial crown land	Agreement forests	Private[c]	Total
1978	2 915	-	2 915	-	34	2 949
1979	4 199	-	4 199	24	24	4 248
1980	4 063	-	4 063	22	77	4 163
1981	2 362	-	2 362	-	-	2 362
1982	2 401	-	2 401	8	-	2 409
1983	4 826	434	5 260	-	17	5 277
1984	3 702	799	4 501	-	-	4 501
1985	3 707	123	3 830	-	-	3 830
1986	6 272	2 166	8 438	23	-	8 461
1987	8 221	6 074	14 295	3	25	14 323

[a] For year ending 31 March
[b] Provincial crown land
[c] Lands managed under the Woodlands Improvement Act

Source: Ont. Min. Nat. Resour. Special request.

Table 4.4. Forest tree production by OMNR administrative region, 1984.

OMNR administrative region	No. of production centres 1984	Production area 1984	Seedlings produced ('000 trees) 1984	Planned production ('000 trees) 1985	1986
Northwestern	5 container	7 290 m^2	18 376	n/a	n/a
	1 bare-root	41 ha	3 700	4 100	3 700
North Central	7 container	18 111 m^2	24 173	n/a	n/a
	2 bare-root	134 ha	6 530	11 500	13 400
Northern	13 container	35 194 m^2	35 662	n/a	n/a
	3 bare-root	131 ha	21 371	27 544	26 115
Northeastern	4 container	7 471 m^2	8 207	n/a	n/a
	1 bare-root	4 ha	1 471	930	1 200
Algonquin	-	-	-	-	-
Eastern	2 container	3 420 m^2	977	n/a	n/a
	1 bare-root	115 ha	7 752	7 200	8 200
Central	1 container	6 493 m^2	62	n/a	n/a
	2 bare-root	152 ha	13 056	13 188	10 360
Southwestern	1 bare-root	80 ha	6 058	6 689	5 900
Totals	32 container	77 979 m^2	87 457	78 731	88 986
	11 bare-root	657 ha	59 938	71 151	68 875

Source: Smyth, J.H. and Brownwright, A. 1986. Forest tree production centres in Canada, 1986. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-378.

Table 4.5. **Trees shipped, 1984, and planned production, 1985-1986, by province.**

Province	No. of production centres 1984	Area available for production 1984	Trees shipped ('000 trees) 1984	Planned production 1985	Planned production 1986
British Columbia	26 container	240 395 m^2	74 702	155 338	241 598
	11 bare-root	853 ha	53 329	53 696	51 450
Alberta	5 container	27 115 m^2	15 139	23 740	23 750
	2 bare-root	100 ha	9 600	14 200	12 300
Saskatchewan	0 container	1 134 m^2	0	765	1 530
	4 bare-root	151 ha	10 647	11 365	18 159
Manitoba	2 container	6 582 m^2	3 722	7 688	10 360
	1 bare-root	38 ha	2 700	4 500	4 500
Ontario	32 container	77 979 m^2	81 458	78 731	88 986
	11 bare-root	761 ha	59 938	71 151	68 875
Quebec	15 container	126 870 m^2	21 500	35 000	99 000
	8 bare-root	387 ha	47 400	66 500	61 000
New Brunswick	9 container	53 316 m^2	39 802	54 391	54 411
	2 bare-root	126 ha	14 300	13 000	13 000
Nova Scotia	8 container	27 407 m^2	12 073	23 900	29 754
	2 bare-root	99 ha	4 600	4 400	6 500
Prince Edward Island	1 container	3 717 m^2	1 214	1 675	2 000
	1 bare-root	20 ha	315	390	400
Newfoundland	3 container	3 204 m^2	2 439	3 165	3 165
	1 bare-root	40 ha	3 242	7 000	9 000
Total	101 container	567 719 m^2	252 049	384 393	554 554
	43 bare-root	2 575 ha	206 071	246 202	245 184

Source: Smyth, J.H. and Brownwright, A. 1986. Forest tree production centres in Canada, 1986. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-378.

Table 4.6. **Public and industry expenditures on forest management, by activity, Ontario and Canada, 1977, 1979, 1981, 1983.**

	1977		1979		1981		1983	
	Ont.	Can.	Ont.	Can.	Ont.	Can.	Ont.	Can.
	- - - - - - - - - - - - - - - - $ 000,000 - - - - - - - - - - - - - - - -							
Silviculture	31.9	118.2	42.3	164.5	80.4	272.3	95.5	335.9
Protection	32.0	115.3	33.4	157.8	52.3	311.6	65.2	241.6
Access	31.5	216.8	32.0	284.7	43.6	265.3	71.3	229.6
Research	11.6	37.2	13.3	40.0	17.5	56.4	25.6	77.2
Other	20.4	171.8	25.6	224.6	35.9	342.1	43.3	363.5
Total	127.4	659.3	146.6	871.6	229.7	1 247.7	300.9	1 247.8

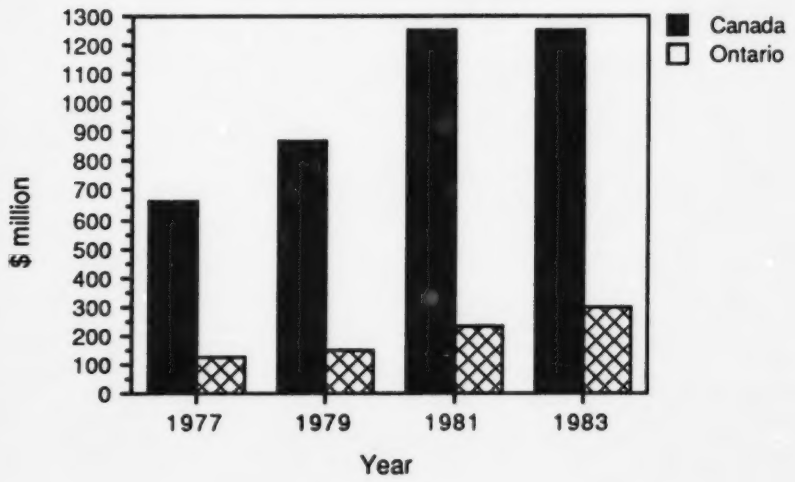


Figure 5. Public and industry expenditures on forest management, by activity, Ontario and Canada, 1977, 1979, 1981, and 1983.

Source: Barron, D.E., Smyth, J.H., Campbell, K.L., and Martel, J-P. 1986. Forest management expenditures in Canada, 1977-1983. Can. Pulp Pap. Assoc., Woodlands Sect., Montreal, P.Q., and Can. For. Serv., Sault Ste. Marie, Ont. Joint Rep. No. 9.

SECTION V

COMMODITY PRODUCTION AND SHIPMENTS

Table 5.1. Primary forest production, by product, all ownerships, 1972-1984 ('000 m^3).

Year		Logs and bolts	Pulpwood	Fuelwood	Miscellaneous roundwood	Total
1972	softwood	4 176	9 197	212	201	13 786
	hardwood	1 911	1 152	510	[a]	3 573
1973	softwood	4 587	9 868	215	203	14 873
	hardwood	1 770	1 274	527	[a]	3 571
1974	softwood	4 191	10 562	227	150	15 130
	hardwood	1 826	1 331	580	[a]	3 737
1975	softwood	3 653	6 966	241	142	11 002
	hardwood	1 614	963	637	[a]	3 214
1976	softwood	5 437	8 552	255	193	14 437
	hardwood	1 926	850	665	[a]	3 441
1977	softwood	5 947	9 004	198	156	15 305
	hardwood	1 968	1 302	694	[a]	3 964
1978	softwood	6 230	9 267	255	139	15 891
	hardwood	2 025	1 337	934	[a]	4 296
1979	softwood	6 782	9 183	297	133	16 395
	hardwood	2 350	1 586	963	[a]	4 899
1980	softwood	6 768	9 345	255	113	16 481
	hardwood	2 293	1 458	1 090	[a]	4 841
1981	softwood	6 937	10 619	382	127	18 065
	hardwood	1 770	1 486	1 487	[a]	4 743
1982	softwood	6 139	8 835	359	113	15 446
	hardwood	1 495	1 387	1 450	[a]	4 332
1983	softwood	7 244	10 761	431	107	18 543
	hardwood	1 764	1 689	1 740	[a]	5 193
1984	softwood	9 487	11 995	360	7	21 849
	hardwood	2 834	1 636	1 811	[a]	6 281

[a] Included with softwood

Source: Statistics Canada. Catalogue No. 25-201.

Table 5.2. **Pulpwood and wood residue consumption, 1971-1986 (m^3).**

	Pulpwood		Wood residue (woodchips)	Total
	Softwood	Hardwood		
1971	8 826 188	1 622 895	1 792 745	12 241 828
1972	9 246 347	1 620 098	2 065 747	12 932 192
1973	9 231 612	1 475 923	2 403 626	13 111 161
1974	9 921 438	1 527 128	2 559 116	14 007 682
1975	6 739 000	933 000	1 763 000	9 435 000
1976	7 874 789	1 257 772	2 337 957	11 470 518
1977	9 146 015	1 304 872	3 368 456	13 819 343
1978	9 103 189	1 560 242	3 881 157	14 544 588
1979	9 672 002	1 519 145	4 107 950	15 299 097
1980	10 277 540	1 431 896	4 153 287	15 862 723
1981	9 779 330	1 655 178	4 319 348	15 753 856
1982	8 634 784	1 528 586	3 477 127	13 640 497
1983	9 585 687	1 885 428	4 003 082	15 474 197
1984	10 576 541	1 836 748	4 278 964	16 692 253
1985	10 280 000	1 785 000	3 942 000	16 007 000
1986	n/a	n/a	n/a	17 341 357

Sources: Canadian Pulp and Paper Association. Reference tables. Various issues.

Statistics Canada. Catalogue No. 36-204, 25-001.

Table 5.3. Pulpwood and wood residue consumption, by major region, 1974-1986 ('000 m^3).

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Roundwood													
Softwood													
Quebec	15 154	12 642	12 722	12 349	12 883	13 095	11 669	12 037	11 246	10 270	10 082	11 353	n/a
Ontario	9 921	6 739	7 875	9 146	9 103	9 672	10 278	9 779	8 635	9 586	10 577	10 280	n/a
British Columbia	8 774	6 256	6 714	5 663	6 046	5 958	6 594	6 125	4 803	4 873	4 895	5 278	n/a
Other provinces	11 878	10 980	11 263	10 543	11 052	11 950	11 894	12 368	10 414	10 293	11 408	11 826	n/a
Total	45 727	36 618	38 574	37 701	39 084	40 675	40 435	40 309	35 098	35 022	36 962	38 737	n/a
Hardwood													
Quebec	1 574	849	1 019	1 106	1 336	1 391	1 355	1 441	1 183	1 465	1 792	2 018	n/a
Ontario	1 527	933	1 258	1 305	1 560	1 519	1 432	1 655	1 529	1 885	1 837	1 785	n/a
British Columbia	380	179	241	a	a	a	a	a	a	a	a	a	n/a
Other provinces	1 650	925	830	1 931	1 843	1 326	1 240	1 312	1 116	1 383	2 006	2 079	n/a
Total	5 131	2 886	3 348	4 342	4 739	4 236	4 027	4 408	3 828	4 733	5 635	5 882	n/a
Wood Residue													
Wood chips													
Quebec	4 819	4 406	6 780	6 263	7 868	9 764	9 694	9 994	9 635	11 473	11 857	11 883	n/a
Ontario	2 559	1 763	2 338	3 368	3 881	4 108	4 153	4 319	3 477	4 003	4 279	3 942	n/a
British Columbia	16 703	13 017	19 050	18 019	19 332	20 264	20 211	18 075	17 676	20 742	19 459	21 307	n/a
Other provinces	3 969	2 956	4 108	3 173	3 037	3 025	3 797	3 422	2 622	2 853	4 452	3 894	n/a
Total	28 050	22 142	32 276	30 823	34 118	37 161	37 855	35 810	33 411	39 071	40 047	41 026	n/a
Other Wood Residue and Scrap													
Quebec	b	b	b	1 155	1 276	1 365	1 336	1 363	1 142	1 350	1 060	1 689	n/a
Ontario	b	b	b	b	b	b	b	b	b	b	b	b	n/a
British Columbia	b	b	b	1 160	1 282	1 240	1 377	1 210	1 487	1 953	1 895	2 277	n/a
Other provinces	b	b	b	775	914	1 287	1 107	1 285	937	977	1 202	188	n/a
Total	2 251	1 915	2 565	3 090	3 472	3 893	3 820	3 858	3 603	4 281	4 157	4 154	n/a
Grand total	81 159	63 560	76 763	75 956	81 413	85 965	86 131	84 385	75 940	83 108	86 801	89 799	93 506

[a] Insignificant
[b] Confidential

Sources: Canadian Pulp and Paper Association. Reference tables. Various issues.

Statistics Canada, Catalogue No. 36-204.

Table 5.4. Wood pulp production and consumption in Ontario and Canada, 1967-1984.

Year	Production (tonnes) Ontario	Canada	Ont. as % of Can.	Consumption (tonnes) Ontario	Canada	Ont. as % of Can.
1967	3 282 895	14 385 555	22.8	2 494 499	10 345 146	24.1
1968	3 305 817	15 205 889	21.7	2 472 493	10 554 861	23.4
1969	3 593 399	16 864 460	21.3	2 674 441	11 625 032	23.0
1970	3 600 683	16 608 604	21.7	2 672 321	11 586 087	23.1
1971	3 447 429	16 541 206	20.8	2 579 151	11 316 582	22.8
1972	3 572 171	17 453 405	20.5	2 629 758	11 903 030	22.1
1973	3 668 985	18 562 565	19.8	2 826 472	12 484 992	22.6
1974	3 877 502	19 678 159	19.7	2 981 685	13 037 431	22.9
1975	2 540 483	15 112 744	16.8	1 851 647	10 024 814	18.6
1976	3 060 329	17 946 114	17.1	2 327 618	11 526 630	20.2
1977	3 662 361	18 167 792	20.2	2 718 440	11 821 249	23.0
1978	4 126 664	20 152 457	20.5	3 198 993	13 537 149	23.6
1979	4 321 817	20 728 490	20.8	3 383 751	13 787 542	24.5
1980	4 368 097	20 687 143	21.1	3 332 192	13 521 571	24.6
1981	4 394 267	20 572 085	21.4	3 264 151	13 759 262	23.7
1982	3 752 791	18 513 570	20.3	2 878 170	12 358 890	23.3
1983	4 216 883	20 195 267	20.9	a	a	a
1984	4 365 776	20 463 574	21.3	a	a	a

[a] No longer reported

Source: Statistics Canada, Catalogue No. 36-204.

Table 5.5. **Production of pulp and paper mills, 1977-1985 ('000 tonnes).**

Year	Wood pulp[a]					Paper[b]		
	Groundwood	Sulphite	Sulphate	Other Pulps	Total Pulp	Newsprint	Other paper/ Paperboard	Total paperboards
1977	1 402.6	729.1	1 328.2	150.3	3 610.2	1 645.3	902.9	2 548.1
1978	1 479.8	612.0	1 566.7	144.1	3 849.2	1 759.4	939.3	2 698.7
1979	1 549.2	551.9	1 646.4	194.3	3 941.8	1 814.0	1 085.0	2 899.0
1980	1 486.7	536.6	1 799.1	185.1	4 007.6	1 788.7	1 077.5	2 866.2
1981	1 454.0	497.3	1 732.4	267.3	3 951.0	1 809.5	1 001.1	2 810.6
1982	1 150.6	379.4	1 561.5	231.0	3 322.6	1 511.6	952.5	2 464.1
1983	1 186.7	473.5	1 716.4	395.9	3 772.6	1 651.5	1 039.8	2 691.4
1984	1 288.6	503.1	1 903.2	416.5	4 111.4	1 824.8	1 122.5	2 947.3
1985	1 193.0	469.5	1 893.2	424.1	3 979.9	1 744.5	1 181.5	2 926.1

a Wood pulp production includes both integrated pulp and paper mills and non-integrated pulp mills.
b Paper production does not include non-integrated mills.

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.6. **Lumber production, by species, 1970-1985 ('000 m^3).**

Year	Spruce, balsam and jack pine	Red and white pine	Hemlock	Other softwoods	Total softwoods	Birch	Elm	Oak	Maple	Poplar	Other hardwoods	Mixed hardwoods	Total hardwoods	Total lumber, all species[a]
1970	1 098.4	314.3	48.7	9.6	1 471.3	75.9	55.8	n/a	219.4	36.2	81.6	n/a	470.6	1 942.2
1971	1 360.9	288.5	33.1	11.6	1 694.2	76.2	39.6	n/a	237.3	30.6	91.2	n/a	475.4	2 169.6
1972	1 499.9	305.8	34.0	8.8	1 848.8	88.1	37.7	n/a	272.1	35.4	93.4	n/a	550.2	2 375.5
1973	1 938.6	372.4	37.7	10.8	2 359.6	66.3	30.9	n/a	293.4	75.9	136.8	n/a	602.9	2 962.5
1974	1 858.7	344.3	41.6	11.9	2 256.3	86.1	25.8	n/a	319.7	60.3	120.9	n/a	612.8	2 869.3
1975	1 583.5	329.6	37.7	14.4	1 965.2	59.2	15.9	22.4	225.7	44.2	51.2	23.5	445.7	2 410.9
1976	1 961.2	367.0	35.4	12.7	2 376.3	83.0	37.4	21.0	221.7	42.5	54.1	29.2	489.0	2 865.4
1977	2 483.5	374.9	51.2	8.9	2 918.6	67.8	8.5	27.2	275.5	57.5	69.9	19.3	525.6	3 444.2
1978	2 826.1	460.4	51.8	11.3	3 349.6	67.1	9.6	36.8	306.1	69.7	76.5	77.6	643.4	3 993.0
1979	2 778.4	428.7	58.9	31.7	3 297.8	75.6	6.1	39.0	344.7	83.2	109.1	37.5	685,6	3 983.4
1980	3 079.3	434.7	60.4	34.0	3 608.0	73.7	11.3	35.2	303.5	77.9	83.5	88.8	673.8	4 281.8
1981	3 108.3	429.4	69.5	17.5	3 617.0	80.2	3.0	40.3	276.3	93.1	84.2	33.1	610.1	4 227.1
1982	2 358.2	382.5	.8	9.9	2 793.0	47.9	1.6	35.0	208.2	56.7	55.1	46.0	450.3	3 243.3
1983	3 055.4	488.5	49.0	13.2	3 606.0	52.7	b	40.2	264.0	76.5	55.4	28.2	510.6	4 116.6
1984	3 335.8	566.1	48.2	22.2	3 972.2	71.2	b	51.8	246.1	79.9	88.1	48.9	586.2	4 558.4
1985	3 625.5	541.9	48.4	14.0	4 229.0	78.9	b	51.3	258.4	98.6	90.8	76.0	654.1	4 883.0

[a] Totals may not be precise because of rounding.
[b] No longer reported

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.7. Lumber production in northern Ontario, by OMNR administrative region, 1978-1985 ('000 m^3).

Year	Type	OMNR administrative region				
		North-western	North Central	Northern	North-eastern	Total
1978	softwood	256.0	824.0	1 352.4	555.7	2 988.1
	hardwood	.5	79.7	5.1	112.2	197.5
		256.5	903.7	1 357.5	667.9	3 185.6
1979	softwood	262.3	633.8	1 496.8	529.8	2 922.7
	hardwood	3.7	27.1	10.0	130.6	171.3
		266.0	660.9	1 506.8	660.4	3 094.0
1980	softwood	250.9	873.4	1 489.8	614.8	3 228.0
	hardwood	2.3	28.9	9.7	145.9	186.7
		253.2	902.3	1 499.5	660.7	3 415.7
1981	softwood	301.1	829.8	1 462.8	686.2	3 279.0
	hardwood	1.9	37.7	10.3	123.8	173.8
		303.0	867.5	1 473.1	810.0	3 453.7
1982	softwood	229.5	524.7	1 197.5	559.3	2 510.1
	hardwood	1.3	10.4	59.0	77.8	149.5
		230.8	535.1	1 257.5	637.0	2 660.6
1983	softwood	375.0	739.1	1 480.0	620.0	3 214.1
	hardwood	.3	2.9	8.3	106.7	118.2
		375.3	742.0	1 488.3	726.7	3 332.3
1984	softwood	352.2	849.2	1 494.4	867.2	3 563.0
	hardwood	1.6	4.5	6.9	107.9	120.9
		353.8	853.7	1 501.3	975.1	3 683.9
1985	softwood	369.9	980.0	1 539.2	944.4	3 833.5
	hardwood	.4	3.2	4.8	112.5	120.9
		370.3	983.2	1 544.0	1 056.9	3 954.4

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.8. Lumber production in southern Ontario, by OMNR administrative region, 1978-1985 ('000 m^3).

Year	Type	OMNR administrative region				
		Algonquin	Eastern	Central	South-western	Total
1978	softwood	321.4	28.9	5.8	5.3	361.5
	hardwood	200.2	70.1	39.3	136.3	445.9
		521.6	99.0	45.1	141.5	807.4
1979	softwood	333.0	26.9	7.9	7.2	375.1
	hardwood	269.1	83.5	54.5	107.2	514.3
		602.1	110.4	62.4	114.4	889.4
1980	softwood	333.3	26.5	13.3	5.9	379.0
	hardwood	223.7	94.4	57.3	111.7	487.0
		556.0	120.9	70.6	117.6	866.0
1981	softwood	276.9	43.5	12.1	4.4	336.9
	hardwood	225.6	61.1	46.3	103.4	436.3
		502.5	104.6	58.4	107.8	773.2
1982	softwood	217.3	33.5	24.3	5.2	280.2
	hardwood	190.2	51.3	47.7	84.9	374.2
		407.5	84.8	72.0	90.1	654.4
1983	softwood	319.7	44.5	24.4	3.2	391.8
	hardwood	215.6	42.8	45.7	88.3	392.4
		535.3	87.3	70.1	91.5	784.2
1984	softwood	328.1	35.6	41.9	3.5	409.1
	hardwood	247.6	47.6	61.1	108.9	465.2
		575.7	83.2	103.0	112.4	874.3
1985	softwood	319.7	37.7	33.4	4.6	395.4
	hardwood	294.6	52.3	66.3	119.8	533.0
		614.3	90.0	99.7	124.4	928.4

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.9. **Wood chip production, by OMNR administrative region, 1977-1985.**

Year	OMNR administrative region			
	North Central (m^3)	Northern and Northeastern (m^3)	All other regions (m^3)	Total (m^3)
1977	1 193 712	1 985 673	388 656	3 568 041
1978	1 438 356	2 110 467	492 001	4 040 825
1979	1 479 480	2 429 411	656 260	4 565 153
1980	1 342 023	2 691 778	484 693	4 618 495
1981	1 187 420	2 591 994	502 637	4 282 051
1982	853 698	2 224 792	345 690	3 425 840
1983	1 510 400	2 708 744	618 044	4 823 166
1984	1 844 864[a]	3 155 926	746 710	5 747 500
1985	1 931 123[a]	3 436 658	696 631	6 064 412

[a] Includes Northwestern and North Central Regions

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.10. **Roundwood consumption by the sawmill industry, 1970-1984.**

Year	Softwood ('000 m^3)	Hardwood ('000 m^3)	Total ('000 m^3)
1970	3 569	1 099	4 668
1971	3 855	919	4 804
1972	3 810	1 056	4 866
1973	4 615	1 100	5 715
1974	4 774	1 195	5 969
1975	3 624	750	4 374
1976	4 374	778	5 152
1977	5 957	799	6 756
1978	6 641	836	7 477
1979	7 751	927	8 678
1980	8 744	853	9 597
1981	7 929	861	8 790
1982	6 778	601	7 379
1983	7 091	626	7 717
1984	7 555	600	8 155

Source: Statistics Canada. Catalogue No. 35-204.

Table 5.11. **Shipments of roundwood, by product, 1969–1984.**

	Logs, bolts and other roundwood						Pulpwood						Total roundwood	
	Softwood[a]		Hardwood		Total		Softwood		Hardwood		Total			
Year	Quant.[b]	Val.[c]	Quant.	Val.	Quant.	Val.	Quant.	Val.	Quant.	Val.	Quant.	Val.	Quant.	Val.
1969	2 372	24 353	736	11 064	3 013	33 932	11 395	142 701	1 509	15 009	12 904	157 710	16 012	193 127
1970	2 206	23 248	557	8 356	2 700	30 557	10 639	140 176	1 283	12 702	11 922	152 078	14 684	184 482
1971	2 680	29 785	606	9 205	3 214	37 684	9 336	129 269	1 051	9 643	10 387	138 912	13 672	177 902
1972	3 134	36 219	706	10 839	3 760	45 463	10 780	147 679	1 085	10 533	11 865	158 212	15 704	205 270
1973	2 696	33 940	690	11 192	3 349	44 416	11 142	162 605	1 203	13 975	12 345	176 580	15 731	221 712
1974	2 882	40 841	733	13 935	3 575	53 865	11 298	209 913	1 524	16 413	12 822	226 326	16 438	281 102
1975	2 629	46 432	494	12 612	3 023	56 584	7 866	174 412	594	9 883	8 460	184 295	11 583	243 339
1976	2 521	51 189	523	13 154	3 021	63 578	8 877	222 776	1 061	19 876	9 938	242 652	12 983	306 995
1977	3 641	79 086	609	14 839	4 203	92 994	9 370	255 049	1 182	24 417	10 552	279 466	14 802	373 391
1978	4 115	100 439	652	17 220	4 763	117 557	9 916	282 712	1 193	27 671	11 109	310 383	15 877	428 042
1979	4 145	112 307	727	21 684	4 872	133 991	10 053	314 650	1 323	34 414	11 375	349 064	16 248	483 055
1980	4 545	132 448	700	22 129	5 245	154 577	10 291	341 071	1 207	31 127	11 498	372 198	16 743	526 775
1981	3 581	118 481	1 062	37 251	4 643	155 732	10 075	363 999	2 137	66 779	12 212	430 778	16 855	586 510
1982	2 998	100 883	862	26 135	3 859	126 926	10 059	348 578	1 909	64 094	11 968	412 672	15 828	539 690
1983	3 975	137 052	687	27 328	4 662	164 380	9 879	379 779	2 387	83 058	12 266	462 837	16 928	627 217
1984	5 062	177 067	1 000	33 988	6 062	211 055	9 089	378 924	3 138	103 125	12 228	482 049	18 290	693 104

[a] Includes other hardwood
[b] '000 m^3
[c] $'000

Source: Statistics Canada. Catalogue No. 25-201.

Table 5.12. **Veneer and plywood production, 1977-1985.**

Year	Veneer (m^3)	Plywood (m^3)	Total (m^3)
1977	77 222	189 146	266 368
1978	98 344	212 517	310 861
1979	100 117	189 723	289 840
1980	112 775	194 193	306 968
1981	102 307	201 554	303 861
1982	93 391	154 884	248 275
1983	110 645	185 925	296 570
1984	197 441	105 425	302 866
1985	161 465	97 897	259 362

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.13. **Particleboard and waferboard production, 1977-1985.**

Year	Particleboard (m^3)	Waferboard (m^3)	Total (m^3)
1977	228 235	250 273	478 508
1978	279 718	324 745	604 463
1979	284 814	377 885	662 699
1980	318 271	316 412	634 683
1981	320 811	339 591	660 402
1982	235 348	258 644	493 992
1983	256 207	460 195	716 402
1984	235 453	557 377	792 830
1985	280 779	542 579	823 358

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

SECTION VI

COMMODITY TRADE

Table 6.1. **Value of pulp, paper and paper products exported from Ontario, 1986.**

	Exports		
	Ontario	Canada	Ontario as % of Canada
	$,000		
Pulp			
Dissolving and special alpha	[a]	144 339.3	[a]
Sulphate, paper grades			
Bleached softwood	468 377.8	2 940 527.3	15.9
Bleached hardwood	61 049.6	287 252.5	21.3
Semi-bleached	6 306.6	182 545.8	3.5
Unbleached	5 203.2	63 060.1	8.3
Sulphite, paper grades			
Bleached	[a]	[a]	[a]
Unbleached, strong	[a]	24 193.7	[a]
Unbleached, news grade	[a]	[a]	[a]
Mechanical			
Bleached	[a]	22 102.5	[a]
Unbleached	21.0	113 736.0	.02
Other pulps	36.8	74 434.9	.1
Newsprint	1 074 993.8	5 666 972.5	19.0
Other paper and paperboard			
Wrapping paper			
Bleached sulphite and sulphate	19 959.6	29 384.8	67.9
Unbleached sulphite and sulphate	1 619.5	133 968.1	1.2
Miscellaneous furnishes	1 341.7	2 537.9	52.9
Wrapping paper (not elsewhere specified)	713.0	3 783.1	18.9
Book, writing and other printing			
Groundwood printing	283 201.2	484 910.5	58.4
Paper for printing	62 318.9	124 321.6	50.1
Writing and reproduction	36 808.0	52 602.7	70.0
Fine paper	7 855.6	49 615.5	15.8
Base stock for coated print paper	4 050.2	4 078.4	99.3
Hanging paper unprinted	.3	.3	100.0
Paperboard			
Liner board	3 295.6	145 585.8	2.3
Corrugating	5 502.1	95 238.4	5.8
Solid bleached and folding boxboard	8 737.5	13 771.2	63.5
Set-up boxboard	[a]	[a]	[a]
Other paperboard	15 081.6	21 024.5	71.7
Wet machine board	78.1	2 371.1	3.3
Building board			
Rigid insulating board	2 221.4	14 570.9	15.3
Hard board	6 032.8	20 870.7	28.9
Other building board	68.8	350.1	19.6
Asphalt shingles	46 776.0	56 425.4	82.9
Building and roofing paper	15 017.5	65 348.5	23.0
Tissue paper, except sanitary	1 893.3	5 297.9	35.7
Sanitary	22 038.7	49 508.3	44.5
Paper products			
Wallpaper, printed	93 109.2	111 858.7	83.2
Other converted papers	36 167.8	54 425.1	67.7
Total	2 289 877.2	11 061 014.1	20.7

[a] Nil or zero

Source: Statistics Canada. Special compilation.

Table 6.2. **Value of exports of sawn lumber, laden in Ontario, 1986.**

	Exports		
	Ontario	Canada	Ontario as % of Canada
	------ $,000 ------		
Hardwood			
Basswood	693.0	2 760.9	25.1
Birch	4 803.7	10 693.0	44.9
Maple	11 742.3	21 151.8	55.5
Oak	12 279.0	23 312.5	52.7
Poplar	2 893.3	6 087.6	47.5
Other hardwoods	2 193.1	7 969.0	27.5
Total	34 604.4	71 974.8	48.1
Softwood			
White spruce	7 966.2	84 079.5	9.5
Lodgepole pine	104.9	19 207.5	.6
Yellow cedar	34.6	102 732.9	.0
Cedar (not elsewhere specified)	1 226.4	472 784.7	.3
Sitka spruce	a	66 292.2	a
Douglas-fir and western larch	1 210.1	281 130.9	.4
Western hemlock and amabilis fir	395.0	721 693.3	.1
Spruce-pine-fir (not elsewhere specified)	795 250.0	3 050 123.8	26.1
Ponderosa pine	32.9	569.9	5.8
Red pine	1 920.2	2 096.9	91.6
White pine	28 834.1	57 745.3	49.9
Pine (not elsewhere specified)	816.9	2 656.9	30.8
Other softwoods	36.7	1 197.4	3.1
Total	837 828.0	4 862 311.2	17.2
Total	866 942.7	4 934 286.0	17.6

[a] Nil or zero

Source: Statistics Canada. Special compilation.

Table 6.3. **Value of veneer and plywood exports, laden in Ontario, 1986.**

	Exports		
	Ontario	Canada	Ontario as % of Canada
	----- $,000 -----		
Veneer			
Oak	23 363.1	41 733.3	56.0
Birch	20 161.7	41 412.1	48.7
Elm	596.9	693.1	86.1
Maple	5 091.9	6 184.3	82.3
Walnut	1 255.0	2 684.4	46.8
Other hardwood	5 113.3	7 728.9	66.2
Spruce	21.2	489.3	4.3
Other softwood	2 155.5	14 225.2	15.2
Total veneer	57 758.6	115 450.6	50.0
Plywood			
Birch	9 309.7	11 196.8	83.2
Other hardwood	9 041.3	12 226.9	74.0
Other softwood	353.7	54 966.6	.6
Total plywood	18 704.7	78 390.3	23.9
Total veneer and plywood	76 463.3	193 840.9	39.4

Source: Statistics Canada. Special compilation.

Table 6.4 **Value of imports of major forest products, Ontario and Canada, 1986.**

Commodity	Ontario	Canada	Imports Ontario as % of Canada
	- - - - $000 - - - -		
Logs, hardwood	20 040	43 583	46.0
Logs, softwood	2 135	107 414	2.0
Logs, exotic species	97	175	55.4
Poles	4 705	12 056	39.0
Bolts and round timber	234	2 724	8.6
Lumber, hardwood	110 324	198 152	55.7
Lumber, softwood	40 871	134 755	30.3
Lumber, exotic species	6 618	12 793	51.7
Railway ties	2 540	6 382	39.8
Dimension stock	7 298	11 095	65.8
Misc. sawmill products	705	4 984	14.1
Veneer, hardwood	13 967	23 703	58.9
Veneer, softwood	1 196	16 550	7.2
Plywood, hardwood	14 534	44 276	32.8
Plywood, softwood	14 572	27 386	53.2
Plywood, wood building boards	5 778	15 304	37.8
Particleboard	4 649	21 725	21.4
Pulpwood chips	233	24 025	1.0
Pulpwood	7 270	28 133	25.8
Wood pulp	58 399	128 851	45.3
Misc. paper products			
Printing, book, misc.	229 937	397 003	57.9
Tissues	19 114	39 947	47.8
Wrapping	19 366	37 558	51.6
Paper products	148 205	204 042	72.6
Paperboards	106 982	159 825	66.9
Building boards	26 859	57 911	46.4
Total	866 628	1 760 352	49.2

Source: Statistics Canada. Special compilation.

Table 6.5 **Value of leading exports to the United States, 1986.**

Sector	$ million	Percentage of total
Motor vehicles	20 607	44.2
Automotive parts	10 398	22.3
Non-ferrous metals	3 759	8.1
Forest products	3 332	7.1
Industrial machinery	2 132	4.6
Iron and steel	1 663	3.6
Food and agricultural products	1 255	2.7
Chemicals	1 954	4.2
Office machinery	931	2.0
Fuels and refined petroleum	614	1.3
Total	46 645	

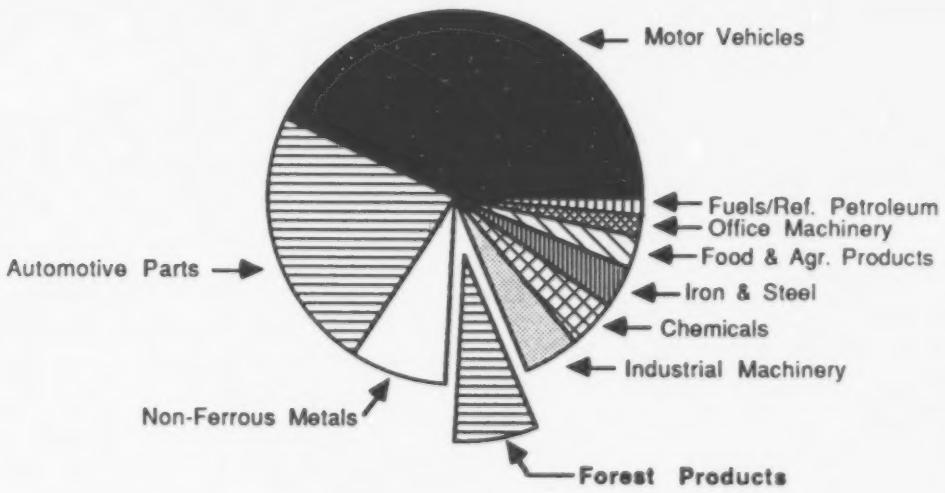


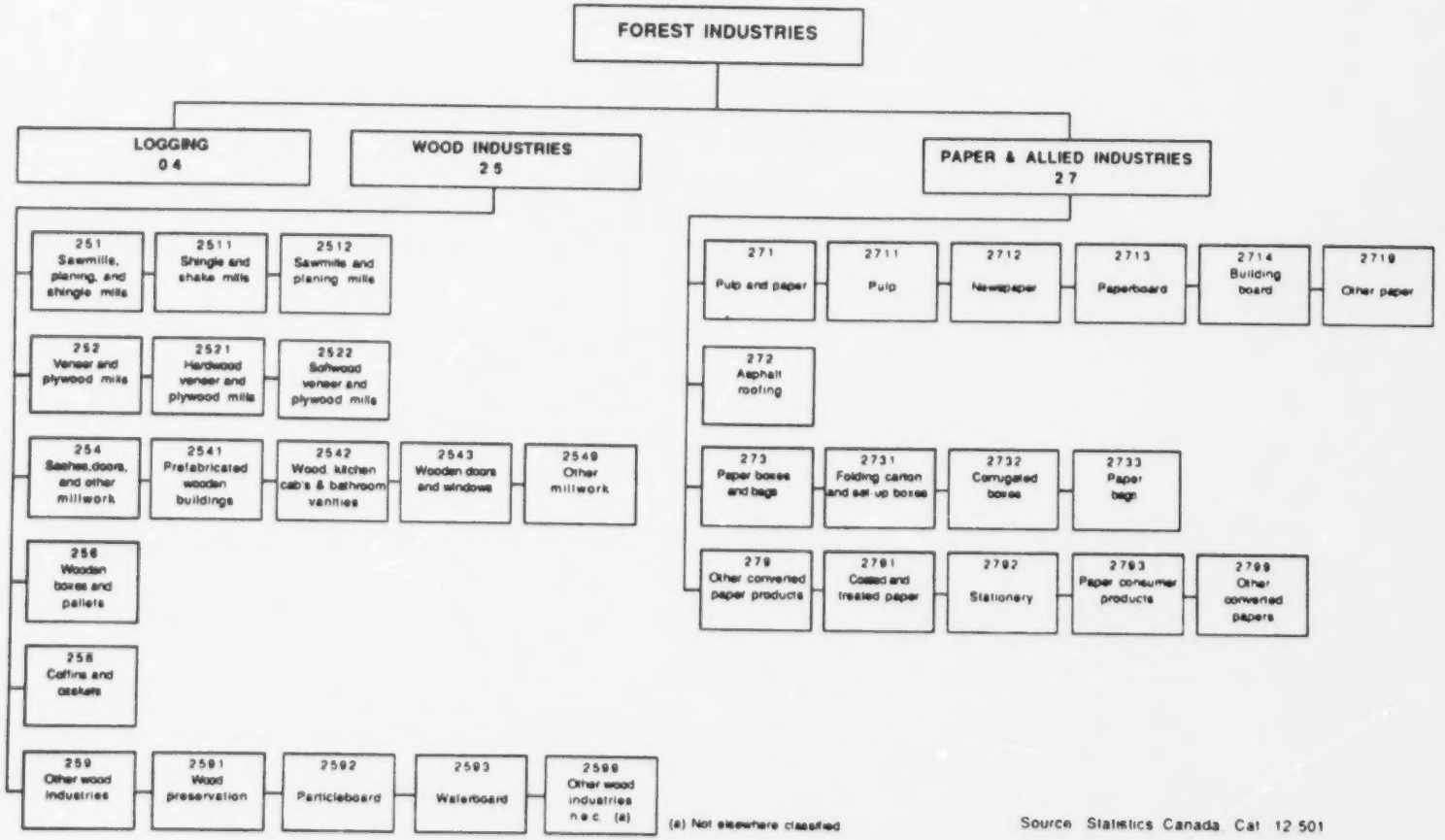
Figure 6. Value of leading exports to the United States, 1986.

Source: Statistics Canada. Catalogue No. 65-003.

SECTION VII

PRINCIPAL STATISTICS

Table 7.1 Standard industrial classification of forest industries, 1980.


FOREST INDUSTRIES
LOGGING 04
WOOD INDUSTRIES 25
PAPER & ALLIED INDUSTRIES 27
251 Sawmills, planing, and shingle mills
2511 Shingle and shake mills
2512 Sawmills and planing mills
252 Veneer and plywood mills
2521 Hardwood veneer and plywood mills
2522 Softwood veneer and plywood mills
254 Sashes, doors, and other millwork
2541 Prefabricated wooden buildings
2542 Wood kitchen cab's & bathroom vanities
2543 Wooden doors and windows
2549 Other millwork
256 Wooden boxes and pallets
258 Coffins and caskets
259 Other wood industries
2591 Wood preservation
2592 Particleboard
2593 Waferboard
2599 Other wood industries n.e.c. (a)
271 Pulp and paper
2711 Pulp
2712 Newsprint
2713 Paperboard
2714 Building board
2719 Other paper
272 Asphalt roofing
273 Paper boxes and bags
2731 Folding carton and set up boxes
2732 Corrugated boxes
2733 Paper bags
279 Other converted paper products
2791 Coated and treated paper
2792 Stationery
2793 Paper consumer products
2799 Other converted papers

(a) Not elsewhere classified

Source: Statistics Canada Cat. 12-501

Table 7.2. **Principal statistics for the forest industry in Ontario, 1983, 1984 and 1985.**

Sector	Manufacturing activity								Total activity		
		Production and related workers							Employees		
	Establishments (No.)	(No.)	Person hours paid ('000)	Wages	Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	(No.)	Salaries and wages	Value added
				($'000)						($'000)	
1983											
Logging	472	6 568	13 463	185 569	39 425	398 704	793 959	354 276	7 826	227 797	355 758
Wood industries	820	16 518	34 112	297 880	54 659	848 804	1 572 204	680 533	19 562	381 158	698 513
Paper and allied industries	301	31 175	64 830	789 180	381 789	2 676 283	5 041 628	1 993 124	41 001	1 110 513	2 010 011
Total forest industries	1 593	54 261	112 405	1 272 629	475 873	3 923 791	7 407 791	3 027 933	68 389	1 719 468	3 064 282
1984											
Logging	484	8 264	17 283	230 988	44 724	514 580	922 640	391 493	9 515	275 809	394 618
Wood industries	838	17 524	36 538	335 434	61 128	999 172	1 795 703	761 219	20 840	432 202	774 791
Paper and allied industries	311	31 806	66 009	848 873	408 817	3 044 817	5 851 884	2 453 274	41 690	1 181 223	2 466 296
Total forest industries	1 633	57 594	119 830	1 415 295	514 669	4 558 569	8 570 227	3 605 986	72 045	1 889 234	3 635 705
1985											
Logging	518	7 313	15 207	218 105	45 769	501 328	949 222	388 446	8 482	260 439	390 214
Wood industries	851	19 777	42 602	399 224	67 135	1 140 014	2 103 431	902 792	23 207	507 511	912 627
Paper and allied industries	317	31 251	65 896	893 031	404 954	3 186 653	6 036 236	2 468 039	40 990	1 245 332	2 476 824
Total forest industries	1 686	58 341	123 705	1 510 360	517 858	4 827 995	9 088 889	3 759 277	72 679	2 013 282	3 779 665

Sources: Statistics Canada. Cataloque No. 25-202 and 1985 Census of Manufactures, special compilation.

Table 7.3. **Principal statistics for logging in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Inventory		Value of shipments of goods of own manufacture	Value added	Employees	
Year	Establishments (No.)	(No.)	Person hours paid ('000)	Wages	($'000)	($'000)	Opening ($'000)	Closing ($'000)	($'000)	($'000)	(No.)	Salaries and wages ($'000)	Value added ($'000)
1970	474	8 246	19 637	67 433	5 224	99 272	53 774	50 563	218 052	110 454	9 567	79 745	111 533
1971	408	6 900	16 080	62 730	4 936	94 459	50 021	48 731	206 608	105 966	8 125	74 761	106 650
1972	393	6 598	15 861	69 594	6 262	104 970	48 969	42 971	234 063	116 776	7 783	81 892	117 993
1973	400	7 677	17 292	84 257	8 131	113 766	43 765	54 523	254 794	144 185	8 983	98 699	145 762
1974	380	8 225	18 543	103 433	11 329	150 366	54 126	74 848	326 247	186 730	9 673	121 454	188 240
1975	328	6 616	14 865	91 265	9 724	150 098	76 622	107 316	302 702	174 117	8 028	111 940	176 263
1976	269	6 307	12 802	103 363	11 014	153 503	99 727	105 041	353 893	195 277	7 694	126 888	196 735
1977	246	7 035	14 324	127 140	12 539	188 298	105 477	100 040	435 323	229 325	8 447	153 309	231 149
1978	255	8 099	16 562	150 301	15 045	244 909	104 891	109 817	504 960	251 259	9 569	179 797	253 658
1979	321	8 096	16 572	163 647	17 084	306 121	120 005	131 212	588 598	276 600	9 684	197 276	278 921
1980	391	8 015	16 692	179 478	24 072	365 267	129 287	167 444	668 003	316 822	9 578	215 652	319 883
1981	418	7 374	14 979	185 016	30 562	381 431	159 787	173 041	717 927	319 189	9 003	230 052	327 515
1982	418	5 683	11 370	149 796	33 320	346 243	169 067	152 847	678 892	283 108	7 079	193 796	287 982
1983	472	6 568	13 463	185 569	39 425	398 704	128 105	126 550	793 959	354 276	7 826	227 797	355 758
1984	484	8 264	17 283	230 988	44 724	514 580	125 499	153 656	922 640	391 493	9 515	275 809	394 618
1985	518	7 313	15 207	218 105	45 769	501 328	n/a	n/a	949 222	388 446	8 482	260 439	390 214

Sources: Statistics Canada. Cataloque No. 25-201 and 1985 Census of Manufactures, special compilation.

Table 7.4. **Principal statistics for wood industries[a] in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers					Inventory			Employees		
Year	Establishments (No.)	(No.)	Person hours paid ('000)	Wages	Cost of fuel and electricity	Cost of materials and supplies	Opening	Closing	Value of shipments of goods of own manufacture	Value added	(No.)	Salaries and wages	Value added
				($'000)								($'000)	
1970	755	13 783	29 605	73 339	5 671	162 137	39 844	40 215	316 922	149 616	16 664	96 282	152 246
1971	733	13 956	29 883	79 810	6 772	178 897	40 807	35 785	360 390	169 865	16 835	105 050	172 794
1972	733	15 458	32 908	94 358	7 881	222 283	35 213	34 889	449 702	218 661	18 598	124 486	223 446
1973	727	16 874	35 887	113 637	10 667	271 284	34 299	39 596	580 816	304 481	20 662	154 051	309 767
1974	740	16 459	34 948	128 408	13 094	314 465	39 924	59 607	631 072	323 717	20 507	176 537	333 098
1975	726	15 860	33 285	138 761	12 975	340 021	55 248	69 865	638 441	300 512	19 284	185 822	306 896
1976	683	16 533	34 390	161 789	17 561	386 944	68 823	75 447	734 319	336 439	19 868	212 309	343 414
1977	645	16 737	35 116	185 845	22 715	447 267	75 118	79 731	870 023	404 653	20 110	242 641	410 509
1978	707	18 268	38 368	216 348	27 712	541 657	78 432	80 940	1 077 962	511 099	21 942	279 260	515 321
1979	761	19 283	40 815	252 044	31 134	690 807	82 366	105 905	1 319 647	620 394	22 902	320 144	629 169
1980	778	18 035	38 087	260 078	33 475	712 130	104 079	127 944	1 275 892	554 153	21 348	328 793	562 631
1981	774	17 699	37 190	287 201	43 705	791 939	129 113	142 685	1 436 082	614 011	20 970	362 998	619 138
1982	794	15 817	31 751	256 192	46 144	678 066	144 056	129 840	1 256 366	517 941	19 015	334 260	525 522
1983	820	16 518	34 112	297 880	54 659	848 804	130 254	142 063	1 572 204	680 533	19 562	381 158	698 513
1984	838	17 524	36 538	335 434	61 128	999 172	137 241	164 043	1 795 703	761 219	20 840	432 202	774 791
1985	851	19 777	42 602	399 224	67 135	1 140 014	175 505	182 014	2 103 431	902 792	23 207	507 511	912 627

[a] Includes sawmills, planing mills and shingle mills, veneer and plywood mills, sash, door and other millwork plants, wooden box and pallet industries, coffin and casket industries, and other wood industries.

Sources: Statistics Canada, Catalogue Nos. 35-204, 35-205, 35-206, 35-208, 35-210 and 1985 Census of Manufactures, special compilation.

Table 7.5. **Principal statistics for sawmills and planing mills in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Inventory		Value of shipments of goods of own manufacture	Value added	Employees	
Year	Establishments (No.)	(No.)	Person hours paid ('000)	Wages	($'000)		Opening	Closing			(No.)	Salaries and wages ($'000)	Value added ($'000)
1970	292	4 677	10 355	24 750	2 474	50 358	22 719	23 770	99 022	47 242	5 361	30 123	47 899
1971	273	4 428	9 640	26 108	2 888	54 754	24 087	20 693	115 752	54 717	5 204	32 552	55 190
1972	267	4 778	10 213	29 980	3 455	61 634	20 414	18 150	144 976	77 624	5 595	37 604	77 889
1973	255	5 353	11 416	37 803	5 194	76 198	17 948	20 027	196 598	117 285	6 620	51 641	117 612
1974	261	5 158	11 037	43 187	6 694	90 960	20 819	32 963	198 957	113 447	6 557	60 078	114 210
1975	240	4 508	9 530	41 903	5 796	101 059	29 785	42 276	180 044	85 680	5 444	54 694	86 123
1976	222	4 642	9 846	49 421	7 324	117 179	40 341	41 352	222 918	99 427	5 660	64 385	100 125
1977	215	5 156	11 071	61 285	9 416	146 030	40 582	42 244	290 277	136 493	6 221	78 341	136 414
1978	225	5 752	12 259	74 847	11 727	187 757	41 028	41 726	396 084	197 297	6 888	95 015	197 672
1979	243	5 956	12 877	85 950	13 550	252 670	42 444	55 031	495 612	241 979	7 105	107 704	242 820
1980	235	6 009	12 861	97 454	14 875	290 029	54 361	77 738	480 955	199 429	6 967	118 193	200 208
1981	235	5 647	11 956	100 156	20 428	305 451	79 400	81 433	521 359	197 512	6 630	123 566	197 720
1982	221	4 976	9 876	88 481	21 713	265 789	84 552	78 176	451 470	157 593	6 005	113 256	161 104
1983	228	5 461	11 186	106 900	25 796	347 514	81 598	85 293	597 648	228 043	6 433	132 022	233 690
1984	225	5 787	11 670	117 362	28 537	413 224	83 240	97 309	669 101	241 409	6 886	147 815	242 281
1985	212	6 526	13 944	148 664	32 981	473 890	110 900	117 521	817 357	317 105	7 686	186 640	318 033

Sources: Statistics Canada. Catalogue No. 35-204 and 1985 Census of Manufactures, special compilation.

Table 7.6. **Principal statistics for the veneer and plywood industry in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers				Inventory				Employees		
Year	Establishments (No.)	(No.)	Person hours paid ('000)	Wages	Cost of fuel and electricity	Cost of materials and supplies	Opening	Closing	Value of shipments of goods of own manufacture	Value added	(No.)	Salaries and wages	Value added
				($'000)								($'000)	
1970	29	1 978	4 031	9 505	857	18 446	5 890	5 200	35 075	15 081	2 283	11 871	15 482
1971	27	1 997	4 063	10 220	917	17 043	5 217	3 179	37 382	17 385	2 262	12 453	17 501
1972	25	2 166	4 453	12 260	1 110	18 655	3 253	2 586	43 715	23 284	2 432	14 848	23 354
1973	24	2 178	4 515	13 622	1 254	23 000	2 586	2 414	56 155	31 728	2 434	16 229	31 588
1974	22	1 921	3 945	13 841	1 220	22 779	2 149	3 319	52 052	29 224	2 189	16 820	29 331
1975	21	1 818	3 696	14 780	1 326	23 949	2 922	3 897	46 874	22 575	2 078	17 986	22 656
1976	20	1 796	3 441	16 174	1 454	25 088	3 976	3 676	50 814	23 973	2 039	19 583	24 542
1977	21	1 715	3 261	17 310	1 740	30 511	3 942	4 253	59 237	27 298	1 965	21 245	26 820
1978	22	2 020	4 035	22 912	2 140	39 126	4 285	3 774	88 946	47 169	2 317	28 108	46 554
1979	23	2 160	4 427	26 434	2 642	50 885	4 342	5 136	110 975	58 243	2 470	32 566	60 903
1980	24	2 146	4 395	28 915	3 025	59 572	5 138	7 499	112 240	52 005	2 443	35 532	54 380
1981	18	1 950	4 081	30 151	3 870	66 825	7 477	8 652	120 226	50 706	2 231	36 585	50 017
1982	21	1 753	3 326	25 501	3 930	52 495	8 425	7 206	98 834	41 190	2 016	32 336	41 104
1983	23	1 782	3 621	30 432	4 786	59 966	7 139	8 546	125 854	62 510	2 046	38 365	65 846
1984	24	1 889	3 938	35 870	4 845	69 234	8 546	11 894	138 718	67 987	2 176	45 694	72 022
1985	19	1 585	3 179	30 867	5 372	59 341	11 705	13 099	118 954	55 636	1 864	39 299	57 216

Sources: Statistics Canada. Catalogue No. 35-206 and 1985 Census of Manufactures, special compilation.

Table 7.7. **Principal statistics for sash, door and other millwork industries in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers					Inventory			Employees		
Year	Establishments (No.)	(No.)	Person hours paid ('000)	Wages	Cost of fuel and electricity	Cost of materials and supplies	Opening	Closing	Value of shipments of goods of own manufacture	Value added	(No.)	Salaries and wages	Value added
				($'000)								($'000)	
1970	261	3 393	7 397	19 166	1 176	54 004	6 996	7 002	100 973	45 799	4 490	27 778	47 265
1971	257	3 838	8 372	22 621	1 312	66 229	7 085	7 200	121 476	48 049	4 911	32 564	55 971
1972	273	4 716	10 126	29 553	1 482	94 371	6 934	9 539	161 504	68 257	5 960	42 134	72 418
1973	278	5 138	11 094	35 644	1 932	116 063	9 260	11 673	208 578	92 996	6 582	51 375	97 804
1974	279	5 165	11 178	41 324	2 283	129 719	11 594	16 547	237 505	110 455	6 714	60 672	118 376
1975	283	5 114	10 861	45 672	2 424	136 249	15 384	15 120	258 851	119 911	6 540	66 021	124 894
1976	282	5 935	12 514	57 837	3 151	162 191	15 881	18 671	297 071	134 517	7 233	78 844	139 934
1977	266	5 513	11 706	57 759	3 847	160 572	18 950	21 815	292 993	131 440	6 819	80 045	137 685
1978	303	5 786	12 189	63 740	4 314	178 215	21 610	22 104	328 703	146 669	7 169	87 361	150 713
1979	316	6 153	12 987	73 444	4 489	210 619	21 687	26 018	385 936	174 308	7 460	98 286	178 123
1980	322	5 456	11 500	70 449	4 885	188 733	25 079	23 782	362 780	167 877	6 668	94 941	178 889
1981	322	5 870	12 321	84 993	6 057	220 011	23 172	30 553	428 796	201 102	7 076	111 843	212 595
1982	343	5 335	11 101	81 659	7 013	197 830	30 441	27 618	395 613	187 948	6 481	109 655	191 269
1983	375	5 839	12 318	98 421	7 638	253 207	26 876	32 649	515 080	260 007	6 778	133 643	266 261
1984	381	6 074	12 873	108 291	8 659	211 391	30 558	34 696	576 147	239 230	7 403	146 916	295 558
1985	407	7 746	17 054	143 216	10 082	368 587	34 143	33 161	744 025	364 379	9 140	186 464	369 278

Sources: Statistics Canada. Cataloque No. 35-205 and 1985 Census of Manufactures, special compilation.

Table 7.8. **Principal statistics for the wooden box and pallet industry in Ontario, 1970-1985.**

Year	Manufacturing activity									Total activity		
	Establishments (No.)	Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Inventory		Value of shipments of goods of own manufacture	Value added	Employees		
		(No.)	Person hours paid ('000)	Wages			Opening	Closing			(No.)	Salaries and wages	Value added
				($'000)								($'000)	
1970	75	1 512	3 161	8 305	444	16 032	983	1 176	35 074	18 791	1 838	11 164	18 749
1971	80	1 538	3 215	8 597	545	16 464	1 178	1 248	35 393	18 454	1 856	11 437	18 542
1972	75	1 572	3 299	8 785	539	17 853	1 165	1 006	37 512	18 961	1 896	11 627	18 952
1973	81	1 676	3 525	10 331	641	22 197	896	1 421	45 829	23 515	2 002	13 645	23 433
1974	89	1 841	3 915	13 182	904	35 343	1 503	1 851	64 955	29 056	2 221	17 305	28 920
1975	90	1 944	4 124	16 010	954	36 634	1 837	1 863	70 530	32 968	2 338	21 899	32 855
1976	86	1 855	3 929	16 281	1 124	36 635	1 916	2 070	74 264	36 659	2 240	21 736	36 448
1977	77	1 916	4 044	21 293	1 393	46 866	2 002	2 280	99 957	51 976	2 284	28 659	51 840
1978	77	1 878	3 947	20 006	1 478	53 651	2 287	3 286	98 567	44 437	2 312	26 311	44 436
1979	88	2 146	4 502	27 865	1 572	70 620	3 321	3 263	126 354	54 104	2 570	34 497	54 230
1980	89	1 846	3 837	22 782	1 531	64 733	3 396	3 391	120 392	54 122	2 250	30 336	53 939
1981	89	1 688	3 522	26 336	1 740	72 780	3 305	3 168	135 109	60 452	2 079	35 374	60 372
1982	102	1 637	3 426	24 435	2 526	60 336	3 449	3 602	118 734	56 024	2 013	33 079	55 927
1983	91	1 187	2 466	16 755	1 860	47 341	3 335	3 326	85 078	35 867	1 374	21 029	36 050
1984	96	1 256	2 612	18 713	2 202	59 199	3 370	3 797	105 158	44 183	1 445	23 293	44 169
1985	90	1 346	2 698	20 354	2 392	65 147	4 431	5 525	112 934	46 485	1 552	26 050	46 433

Sources: Statistics Canada. Catalogue Nos. 1[illegible]-209 and 1[illegible]-208 and 1985 Census of Manufactures, special compilation.

Table 7.9. **Principal statistics for the coffin and casket industry in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers								Employees		
Year	Establishments (No.)	(No.)	Person hours paid ('000)	Wages	Cost of fuel and electricity	Cost of materials and supplies	Inventory Opening	Inventory Closing	Value of shipments of goods of own manufacture	Value added	(No.)	Salaries and wages	Value added
							($'000)					($'000)	
1970	9	280	598	1 353	78	1 938	575	505	4 846	2 760	393	2 148	2 809
1971	9	279	602	1 479	78	1 789	705	749	4 768	2 944	371	2 280	3 034
1972	9	253	529	1 550	74	2 043	749	606	4 953	2 700	343	2 475	2 785
1973	9	238	477	1 351	112	2 219	660	739	5 044	2 791	311	2 182	2 795
1974	9	235	472	1 419	115	2 286	739	601	5 359	2 819	321	2 242	2 857
1975	9	213	451	1 595	113	2 275	504	725	5 382	3 216	264	2 219	3 311
1976	8	212	445	1 713	147	1 859	692	365	5 339	3 005	252	2 317	3 004
1977	7	184	388	1 606	92	1 999	365	321	5 145	3 010	220	2 108	3 007
1978	7	170	374	1 764	128	2 631	321	571	6 027	3 518	214	2 689	3 487
1979	7	156	330	1 718	113	2 687	615	774	6 071	3 431	190	2 296	3 390
1980	8	153	320	1 783	99	3 012	596	779	6 372	3 444	185	2 370	3 426
1981	8	154	321	2 159	126	3 471	779	1 137	6 986	3 747	189	2 843	3 726
1982	8	135	259	1 821	125	2 787	644	230	6 796	3 469	155	2 402	3 452
1983	6	146	274	2 118	135	3 159	225	440	6 722	3 644	167	2 762	3 620
1984	6	133	256	2 138	146	3 125	[a]	[a]	7 387	4 131	148	2 811	4 113
1985	5	159	343	2 732	146	4 312	[a]	[a]	8 861	4 444	173	3 416	4 411

[a] Confidential

Sources: Statistics Canada. Catalogue Nos. 35-210, 35-208 and 1985 Census of Manufactures, special compilation.

Table 7.10. **Principal statistics for other wood industries in Ontario, 1970-1985.**

Year	Manufacturing activity									Total activity		
	Establishments (No.)	Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Inventory		Value of shipments of goods of own manufacture	Value added	Employees		
		(No.)	Person hours paid ('000)	Wages	($'000)		Opening	Closing	($'000)		(No.)	Salaries and wages ($'000)	Value added ($'000)
1970	78	1 421	3 011	7 656	503	14 932	2 681	2 562	30 294	14 740	1 645	9 445	14 801
1971	77	1 495	3 159	8 746	892	17 925	2 535	2 716	35 892	17 256	1 742	10 726	17 396
1972	75	1 591	3 422	10 044	1 066	21 998	2 698	3 002	44 990	22 231	1 876	12 427	22 340
1973	70	1 820	3 805	12 057	1 325	25 625	2 949	3 322	56 782	30 206	2 162	15 366	30 416
1974	69	1 750	3 568	12 974	1 648	27 616	3 120	4 326	61 281	33 224	2 045	16 252	33 858
1975	73	1 900	3 877	16 347	2 153	34 824	4 816	5 984	67 708	31 899	2 232	20 112	32 651
1976	65	2 097	4 224	20 396	4 360	43 991	6 017	9 313	83 912	38 858	2 448	25 473	39 360
1977	59	2 253	4 646	26 596	6 227	61 288	9 277	8 818	122 412	54 437	2 601	32 243	54 742
1978	74	2 662	5 564	33 078	7 925	80 276	8 901	9 479	159 633	72 010	3 046	39 921	72 457
1979	84	2 712	5 692	36 635	8 766	103 328	9 957	15 683	194 698	88 329	3 107	44 796	89 703
1980	100	2 425	5 175	38 698	9 060	106 057	15 510	14 755	193 153	77 282	2 835	47 424	79 789
1981	102	2 390	4 990	43 406	11 484	123 401	14 980	17 742	223 615	91 492	2 765	52 789	94 708
1982	99	1 981	3 764	34 295	10 837	98 828	16 545	13 007	184 918	71 715	2 345	43 532	72 666
1983	97	2 103	4 244	43 253	14 441	137 618	11 081	11 809	241 811	90 483	2 464	53 337	93 045
1984	106	2 385	5 181	53 060	16 738	172 998	11 527	16 347	299 192	114 277	2 782	65 673	116 647
1985	118	2 418	5 386	53 393	16 161	168 738	13 624	11 967	301 302	114 744	2 794	65 643	117 256

Sources: Statistics Canada. Catalogue No. 35-208 and 1985 Census of Manufactures, special compilation.

Table 7.11. **Principal statistics for paper and allied industries[a] in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Inventory		Value of shipments of goods of own manufacture	Value added	Employees	
Year	Establishments (No.)	(No.)	Person hours paid ('000)	Wages			Opening	Closing			(No.)	Salaries and wages
							($'000)					($'000)
1970	283	33 547	72 136	240 472	58 671	672 275	74 217	84 048	1 313 911	592 793	44 894	346 429
1971	289	32 810	69 810	249 840	64 119	697 061	83 717	85 066	1 367 409	607 578	43 867	359 155
1972	300	33 768	72 013	279 206	69 169	753 533	85 576	88 694	1 484 008	664 425	44 580	395 818
1973	289	34 795	73 502	313 220	75 145	861 170	89 232	81 688	1 748 335	805 719	45 391	436 484
1974	294	36 362	76 156	366 745	93 673	1 175 923	82 491	121 487	2 429 739	1 199 139	47 404	512 825
1975	302	33 965	62 456	336 145	93 261	1 064 969	121 277	111 584	2 126 441	958 517	45 178	497 083
1976	301	34 505	73 464	434 420	145 410	1 291 516	112 726	140 903	2 459 739	1 050 989	45 645	612 501
1977	287	33 233	68 858	492 123	197 186	1 440 021	135 189	138 796	2 826 617	1 193 017	43 488	681 113
1978	319	34 819	71 961	541 123	228 829	1 616 288	136 907	143 781	3 145 697	1 307 455	45 209	747 394
1979	334	35 811	74 456	600 095	252 576	2 007 803	145 722	177 298	3 872 205	1 643 403	46 172	827 101
1980	349	37 084	75 711	664 390	279 530	2 368 722	177 790	200 523	4 598 977	1 973 456	47 861	926 779
1981	342	36 277	75 200	749 579	324 780	2 702 821	201 429	220 790	5 129 828	2 121 589	47 381	1 044 810
1982	347	33 013	67 728	743 848	351 385	2 596 915	217 100	239 596	4 841 076	1 915 271	43 917	1 078 919
1983	301	31 175	64 830	789 180	381 789	2 676 283	200 899	209 140	5 041 628	1 993 124	41 001	1 110 513
1984	311	31 806	66 009	848 873	408 817	3 044 817	219 185	292 206	5 851 884	2 453 274	41 690	1 181 223
1985	317	31 251	65 896	893 031	404 954	3 186 653	272 116	295 526	6 036 236	2 468 039	40 990	1 245 332

	Value added
1970	614 506
1971	627 387
1972	681 961
1973	822 197
1974	1 221 616
1975	999 360
1976	1 082 376
1977	1 207 415
1978	1 317 821
1979	1 661 591
1980	1 992 117
1981	2 136 084
1982	1 939 371
1983	2 010 011
1984	2 466 296
1985	2 476 824

[a] Includes pulp and paper mills, asphalt roofing manufacturers, paper box and bag manufacturers, and other converted paper products.

Sources: Statistics Canada, Catalogue Nos. 36-204, 36-205, 36-206, 36-207, 36-213, 36-214, 36-215, 36-216 and 1985 Census of Manufactures, special compilation.

Table 7.12. **Principal statistics for pulp and paper industries in Ontario, 1970-1985.**

Year	Manufacturing activity										Total activity		
	Establishments (No.)	Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Inventory		Value of shipments of goods of own manufacture	Value added	Employees		
		(No.)	Person hours paid ('000)	Wages	($'000)		Opening	Closing			(No.)	Salaries and wages ($'000)	Value added
1970	36	17 832	38 512	143 157	53 295	341 995	23 555	29 371	732 424	342 949	22 201	188 189	346 406
1971	37	17 132	35 946	144 593	58 158	339 829	29 315	29 387	728 289	330 373	21 305	190 348	331 835
1972	37	16 970	36 224	157 759	61 944	358 824	29 387	27 763	778 067	355 675	21 044	206 929	356 799
1973	37	17 326	36 562	174 969	67 593	406 916	27 788	20 574	932 061	450 338	21 271	227 160	451 839
1974	37	17 753	37 848	203 864	84 395	556 363	20 062	30 814	1 347 587	717 581	21 909	265 286	721 076
1975	37	16 417	26 570	164 662	82 775	440 049	30 866	26 265	1 031 209	503 784	20 912	233 645	517 889
1976	37	17 302	37 757	237 708	131 311	579 398	26 131	40 663	1 236 886	540 709	21 693	315 867	548 492
1977	37	17 329	35 774	295 510	181 396	740 843	40 719	41 700	1 603 037	681 778	21 604	383 016	688 718
1978	37	17 797	35 790	320 308	210 538	828 876	40 955	42 412	1 780 255	742 298	22 177	419 289	744 923
1979	37	17 881	37 413	348 539	231 900	1 029 954	42 475	48 349	2 233 098	977 118	22 539	461 813	981 529
1980	36	18 328	37 410	382 238	254 886	1 159 781	48 322	55 843	2 614 443	1 207 296	23 105	510 279	1 215 084
1981	36	17 879	37 407	426 891	294 149	1 290 917	54 231	65 737	2 847 780	1 274 219	22 776	570 463	1 275 857
1982	36	16 811	34 649	439 886	317 107	1 222 136	64 898	82 775	2 593 734	1 072 368	21 826	610 703	1 074 068
1983	34	16 148	34 090	476 606	349 823	1 322 017	83 833	74 861	2 818 209	1 137 397	20 708	644 317	1 134 029
1984	34	15 867	33 666	497 361	372 224	1 514 710	74 049	109 981	3 362 436	1 511 436	20 447	672 579	1 509 372
1985	35	15 272	32 804	514 054	365 282	1 553 015	98 615	96 622	3 441 868	1 458 577	19 831	701 649	1 450 985

Sources: Statistics Canada. Catalogue No. 36-204 and 1985 Census of Manufactures, special compilation.

Table 7.13. **Principal statistics for asphalt roofing manufacturers in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers				Inventory				Employees		
Year	Establishments (No.)	Person hours paid ('000) (No.)	Wages	Cost of fuel and electricity	Cost of materials and supplies	Opening	Closing	Value of shipments of goods of own manufacture	Value added	(No.)	Salaries and wages	Value added
						($'000)					($'000)	
1970	4	162	392	1 212	222	5 573	416	511	10 979	5 278	195	1 451	5 324
1971	4	194	444	1 489	292	7 613	511	557	15 119	7 259	229	1 767	7 426
1972	4	227	522	2 140	342	8 348	824	844	17 616	8 947	268	2 460	9 137
1973	4	261	572	2 313	459	9 847	844	497	19 330	8 677	302	2 661	9 128
1974	4	270	582	2 515	544	10 817	522	1 189	22 275	11 580	318	2 954	12 209
1975	4	289	626	3 119	799	15 855	1 163	920	28 860	11 963	334	3 751	12 721
1976	4	296	645	3 590	1 053	22 125	841	2 207	37 311	15 499	371	4 593	15 869
1977	4	304	661	4 075	1 392	26 425	2 207	3 843	44 185	18 003	397	5 289	18 195
1978	5	306	624	4 036	1 073	31 166	3 694	1 828	53 478	19 372	396	5 526	19 476
1979	5	345	692	4 847	1 527	43 006	1 859	5 266	66 559	25 433	439	6 695	26 264
1980	5	321	687	5 660	1 622	55 186	5 666	6 404	88 341	32 271	427	7 659	32 741
1981	5	353	685	6 093	1 838	64 144	6 768	3 194	102 732	33 176	458	8 486	33 943
1982	5	331	667	6 250	2 222	61 236	3 223	4 401	96 024	33 743	452	9 066	35 455
1983	5	327	670	6 592	2 525	83 598	4 652	7 606	111 652	28 483	385	7 965	28 635
1984	6	459	922	9 068	4 292	94 746	8 425	8 867	144 432	45 835	537	10 969	47 242
1985	7	467	986	10 469	4 826	107 835	10 379	11 984	107 245	59 187	564	13 243	61 291

Sources: Statistics Canada. Catalogue Nos. 36-205, 36-215 and 1985 Census of Manufactures, special compilation.

Table 7.14. **Principal statistics for paper, box and bag manufacturers in Ontario, 1970-1985.**

	Manufacturing activity									Total activity		
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Inventory		Value of shipments of goods of own manufacture	Value added	Employees	
Year	Establishments (No.)	(No.)	Person hours paid ('000)	Wages			Opening	Closing			(No.)	Salaries and wages
							($'000)					($'000)
1970	131	8 471	18 222	53 303	2 804	180 242	21 121	22 536	307 386	125 751	11 628	80 945
1971	129	8 549	18 213	57 902	2 986	195 894	22 453	24 189	334 373	137 229	11 612	86 836
1972	133	9 077	19 541	66 758	3 598	214 739	24 325	26 423	364 261	148 019	12 132	97 515
1973	131	9 536	20 334	75 721	3 690	249 834	26 606	25 502	428 187	174 805	12 653	109 586
1974	138	10 057	20 702	89 082	4 484	341 870	25 678	39 184	570 877	238 029	13 236	129 431
1975	145	9 346	19 114	91 868	5 186	344 774	38 128	34 018	575 004	220 933	12 370	133 996
1976	146	9 226	19 299	108 747	7 041	388 695	34 447	40 271	652 092	262 179	12 244	154 343
1977	140	8 827	18 490	113 361	7 721	386 710	38 231	37 153	649 811	254 303	11 671	161 478
1978	153	9 303	19 368	124 123	8 969	431 365	36 297	40 900	724 944	289 250	12 163	174 463
1979	164	10 041	20 938	142 291	10 671	546 331	41 984	51 760	877 731	330 505	12 844	196 343
1980	172	10 462	21 385	157 638	12 483	617 940	51 613	61 378	996 106	375 445	13 350	219 893
1981	168	9 980	20 584	176 658	15 583	730 796	58 245	62 691	1 153 786	411 852	12 999	249 170
1982	171	8 730	17 610	162 677	16 194	687 158	57 943	61 636	1 121 204	421 545	11 441	236 530
1983	130	7 521	15 352	159 132	13 858	618 024	42 345	48 995	997 137	371 904	9 608	219 929
1984	134	7 801	16 134	178 179	15 040	718 984	47 470	57 068	1 135 582	411 157	9 995	243 398
1985	133	7 878	16 278	192 985	16 862	764 261	57 867	64 090	1 206 406	431 508	10 042	264 051

Value added: 125 777, 137 564, 148 901, 176 350, 241 765, 227 836, 265 314, 256 691, 290 744, 334 390, 378 310, 415 172, 430 262, 369 939, 409 428, 430 694

Sources: Statistics Canada. Catalogue Nos. 36-207, 36-213, 36-214, 36-216 and 1985 Census of Manufactures, special compilation.

Table 7.15. Principal statistics for other converted paper products in Ontario, 1970-1985.

Year	Manufacturing activity										Total activity		
	Establishments (No.)	Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Inventory		Value of shipments of goods of own manufacture	Value added	Employees		
		(No.)	Person hours paid ('000)	Wages	($'000)		Opening	Closing			(No.)	Salaries and wages ($'000)	Value added ($'000)
1970	112	7 082	15 012	42 801	2 348	144 464	29 125	31 630	263 123	118 815	10 870	75 844	136 998
1971	119	7 105	15 207	45 857	2 683	153 725	31 438	30 933	289 628	132 716	10 721	80 205	150 563
1972	126	7 494	15 725	52 548	3 285	171 621	31 040	33 664	324 065	151 783	11 126	88 915	167 123
1973	117	7 672	16 033	60 216	3 404	194 574	33 994	35 115	368 756	171 898	11 165	97 078	184 878
1974	115	8 282	17 024	71 285	4 250	266 871	36 229	50 300	488 999	231 949	11 941	115 154	246 568
1975	116	7 913	16 145	76 496	4 500	264 291	51 120	50 381	491 367	221 838	11 562	125 690	240 914
1976	114	7 681	15 763	84 374	6 006	301 297	51 307	57 762	533 449	232 601	11 367	137 697	252 700
1977	106	6 773	13 933	79 176	6 677	286 043	54 032	56 100	529 585	238 934	9 816	132 330	243 811
1978	124	7 413	15 179	92 665	8 249	324 880	55 961	58 641	587 020	256 570	10 473	148 113	262 678
1979	128	7 544	15 412	104 418	8 477	388 513	59 404	71 923	694 816	310 346	10 350	162 250	319 408
1980	136	7 972	16 228	118 846	10 538	535 797	72 189	76 898	900 066	358 439	10 978	188 940	365 977
1981	133	8 065	16 560	139 937	13 211	616 964	82 185	89 168	1 025 532	402 341	11 148	216 691	411 112
1982	135	7 139	14 784	135 035	15 862	626 385	91 036	90 784	1 030 114	387 615	10 148	222 593	399 586
1983	132	7 179	14 721	146 848	15 582	652 644	70 069	77 678	1 114 631	455 339	10 300	238 301	477 408
1984	137	7 679	15 287	164 266	17 262	716 379	89 241	116 290	1 209 437	484 845	10 711	254 278	500 254
1985	142	7 634	15 828	175 523	17 984	761 542	105 255	122 830	1 280 717	518 767	10 553	266 389	533 834

Sources: Statistics Canada. Cataloque Nos. 36-206, 36-215 and 1985 Census of Manufactures, special compilation.

SECTION VIII

EMPLOYMENT AND EARNINGS

Table 8.1. Employment in the forest industry, by industry group, Ontario, 1970-1985.

Year	Logging	Sawmills and planing mills	Other wood industries	Total wood industries	Pulp and paper mills	Other paper and allied industries	Total paper and allied industries	Total
1970	9 567	5 361	11 303	16 664	22 201	22 693	44 894	71 125
1971	8 125	5 204	11 631	16 835	21 305	22 562	43 867	68 827
1972	7 783	5 595	13 003	18 598	21 044	23 536	44 580	70 961
1973	8 983	6 620	14 042	20 662	21 271	24 120	45 391	75 036
1974	9 673	6 557	13 950	20 507	21 909	25 495	47 404	77 584
1975	8 028	5 444	13 840	19 284	20 912	24 266	45 178	72 490
1976	7 694	5 660	14 206	19 866	21 693	23 952	45 645	73 205
1977	8 447	6 221	13 889	20 110	21 604	21 884	43 488	72 045
1978	9 569	6 888	15 054	21 942	22 177	23 032	45 209	76 720
1979	9 684	7 105	15 797	22 902	22 539	23 633	46 172	78 758
1980	9 578	6 967	14 381	21 348	23 105	24 756	47 861	78 787
1981	9 003	6 630	14 340	20 970	22 776	24 605	47 381	77 354
1982	7 079	6 005	13 010	19 015	21 826	22 091	43 917	70 011
1983	7 826	6 433	13 129	19 562	20 708	20 293	41 001	68 389
1984	9 515	6 886	13 954	20 840	20 447	21 243	41 690	72 045
1985	8 482	7 686	15 521	23 207	19 831	21 159	40 990	76 679

Source: Statistics Canada. Catalogue No. 25-202 and 1985 Census of Manufactures, special compilation.

Table 8.2. Estimated weekly earnings[a] in the Ontario forest sector, 1985, 1986 and 1987 ($).

	Forestry	All wood industries	Sawmills and planing mills	All paper and allied industries	Pulp and paper mills	Average of major forestry industries	All manufacturing industries
1985							
Jan.	580.41	395.78	443.07	560.90	652.45	512.36	486.53
Feb.	564.33	398.28	461.28	563.28	648.30	508.63	498.11
Mar.	556.68	418.75	469.04	565.76	647.52	513.73	502.06
Apr.	585.37	409.71	455.30	568.02	657.33	521.04	503.11
May	530.90	401.76	445.05	578.87	672.60	503.84	503.10
June	532.89	407.21	451.86	580.45	664.70	506.85	499.00
July	502.81	390.26	449.22	575.74	660.14	489.60	497.88
Aug.	488.50	399.48	459.03	581.08	658.51	489.69	503.30
Sept.	554.69	399.19	464.07	581.89	662.35	511.92	508.16
Oct.	556.42	398.96	452.88	592.31	675.19	515.89	512.67
Nov.	596.00	392.89	467.05	585.67	674.13	524.85	520.59
Dec.	610.49	371.44	448.88	585.62	673.26	522.52	497.88
Avg	554.96	398.64	455.56	576.63	662.21	510.08	502.70
1986							
Jan.	645.83	386.44	472.22	589.15	667.64	540.47	521.54
Feb.	661.29	398.13	481.46	591.58	671.24	550.33	528.55
Mar.	655.25	391.64	455.61	584.97	668.54	543.95	521.86
Apr.	605.93	373.70	422.29	592.59	667.57	524.07	523.13
May	574.69	370.90	425.61	595.63	687.19	513.74	521.97
June	596.47	395.62	441.76	606.18	702.98	532.76	520.16
July	610.95	404.31	423.97	601.88	698.98	539.05	518.85
Aug.	562.59	394.46	435.67	596.28	700.73	517.78	514.33
Sept.	587.09	398.84	439.22	603.36	706.02	529.76	525.14
Oct.	590.76	415.99	433.87	604.10	703.13	536.95	533.11
Nov.	642.66	421.29	455.80	606.46	709.31	556.80	539.97
Dec.	626.70	400.13	421.09	605.72	708.54	544.18	531.06
Avg	613.35	395.95	442.38	598.16	690.99	535.82	524.97
1987							
Jan.	643.34	418.85	469.39	609.93	704.76	557.37	534.13
Feb.	658.79	448.56	479.09	610.47	708.11	572.61	544.37
Mar.	632.63	434.67	454.91	610.19	710.78	559.16	543.12

[a] Including overtime

Source: Statistics Canada. Catalogue No. 72-002.

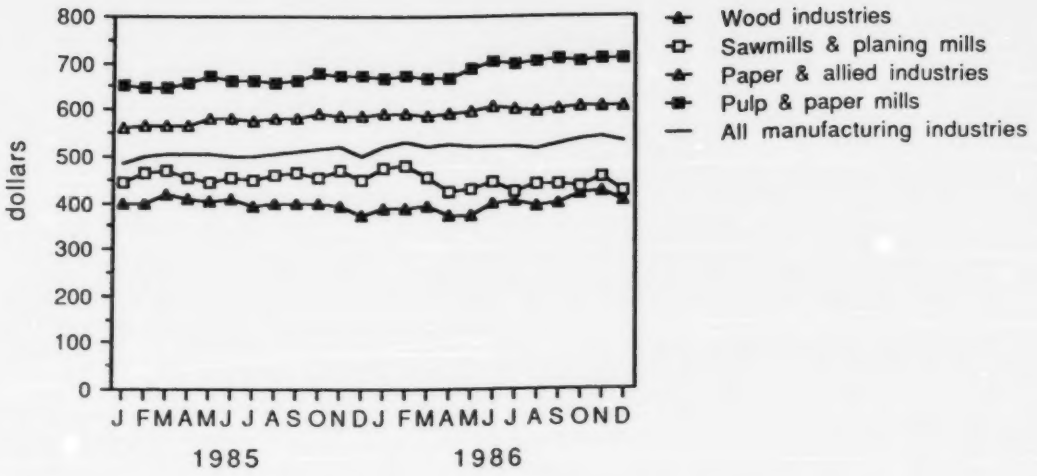


Figure 7. Average weekly earnings in Ontario's forest sector, 1985 and 1986.

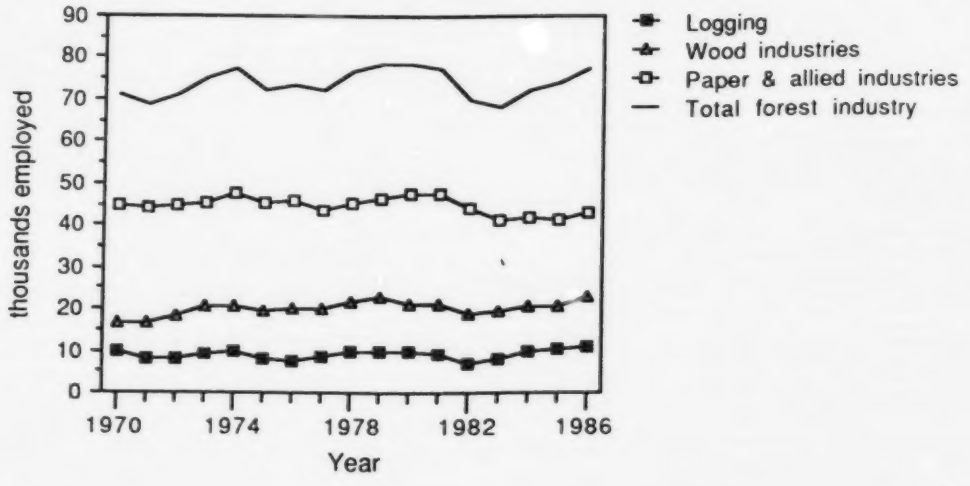


Figure 8. Employment in Ontario's forest industry, by industry group, 1970-1986.

Source: Statistics Canada. Catalogue No. 72-002 and No. 25-202.

Table 8.3 **Estimated number of employees, by forest sector, in Ontario, 1985-1987 (monthly).**

	Forestry			Wood industries			Paper and allied			Total		
	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987
	('000 employed)											
Jan.	12.6	10.2	11.1	15.2	22.1	21.5	41.1	41.8	42.7	69.0	74.3	75.3
Feb.	12.2	10.2	11.2	17.3	22.5	24.0	41.1	42.1	43.7	70.6	74.5	78.9
Mar.	11.8	9.5	10.9	17.8	22.8	24.9	40.2	40.4	45.1	69.9	74.4	80.9
Apr.	8.2	8.3		19.0	25.3		41.3	42.0		68.6	75.6	
May	11.3	9.5		21.9	24.0		41.4	43.5		74.6	77.0	
June	12.4	11.4		22.4	24.3		41.7	44.1		76.4	79.8	
July	13.9	13.0		21.3	22.6		42.3	44.1		77.5	79.7	
Aug.	14.2	13.7		22.0	23.4		41.5	44.6		77.7	81.7	
Sept.	13.6	12.6		21.8	22.6		41.3	44.3		76.7	79.5	
Oct.	11.3	11.0		22.8	22.3		40.7	43.6		74.8	76.9	
Nov.	10.7	11.3		24.5	21.7		41.4	43.4		76.6	76.4	
Dec.	10.0	11.2		24.3	22.3		42.0	43.6		75.6	77.1	
Avg	11.9	11.0		20.9	23.0		41.3	43.1		74.0	77.2	

Source: Statistics Canada, Cat. No. 72-002.

Table 8.4. Ontario forest sector collective bargaining agreements expiring in 1987.

A. IN TERMS OF AGREEMENTS BY MONTH

Industry	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Woods	1	3	3	6	8	3	2	2	3	5	5	5	46
Paper and allied	3	4	7	71	3	4	1	7	7	5	3	6	121
Forestry	0	0	0	6	1	0	0	15	1	0	0	1	24

B. IN TERMS OF EMPLOYEES COVERED BY MONTH

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Woods	20	91	368	482	1 532	372	310	24	211	507	750	55	4 722
Paper and allied	157	301	453	15 745	782	203	34	1 918	1 051	332	591	623	22 190
Forestry	0	0	0	278	120	0	0	5 008	206	0	0	8	5 620

C. BY SIZE OF BARGAINING UNIT

	Under 25		25 - 49		50 - 99		100 - 199		200 - 499		500 - 1000		1000 and Over		Total	
	Agrts	Empls	Agrts	Empls	Agrts	Empls	Agrts	Empls	Agrts	Empls	Agrts	Empls	Agrts	Empls	Agrts	Empls
Woods	17	213	6	211	5	350	8	1 099	10	2 849	0	0	0	0	46	4 722
Paper and allied	23	333	20	700	21	1 527	26	3 484	20	6 141	7	4 460	4	5 545	121	22 190
Forestry	7	98	4	121	1	74	3	434	5	1 431	3	2 162	1	1 300	24	5 620

Source: Labour Canada and the Ontario Ministry of Labour. Collective bargaining settlements and negotiations in Ontario. Monthly, various issues.

Table 8.5. **Ontario forest industry collective bargaining agreements expiring in 1987 and 1988[a], by company.**

Employer	Location	Union	Number of employees	Effective date	Expiry date	Base rate[b]
Forestry						
Abitibi-Price Inc.	Iroquois Falls	Carpenters	343	01/09/84	31/08/87	$13.65
	Thunder Bay	Carpenters	236	01/09/84	31/08/87	$13.65
Domtar Inc.	Nipigon	Carpenters	200	01/09/84	31/08/87	$13.65
E.B. Eddy Forest Products Ltd.	Espanola	Carpenters	325	01/09/84	31/08/87	$13.65
Great Lakes Forest Products Ltd.	Thunder Bay	Carpenters	1479	01/09/84	31/08/87	$13.65
	Dryden	Lumber/Mill Workers		01/10/84	30/09/87	$13.65
Kimberly-Clark of Canada Ltd.	Longlac	Carpenters	770	01/09/84	31/08/87	$13.65
Spruce Falls Power and Paper Co.	Kapuskasing	Carpenters	450	01/09/84	31/08/87	$13.65
Wood Industries						
Consolidated Bathurst	Braeside	Woodworkers	225	01/07/85	30/06/88	$10.08
Dubreuil Brothers Limited	Dubreuilville	Employees' Association	250	01/04/84	31/03/87	$11.09
E.B. Eddy Forest Products Ltd.	Nairn Twp.	Canadian Paperworkers	243	01/09/85	31/08/88	$12.47
G.W. Martin Company	Sault Ste. Marie	Woodworkers	270	29/11/85	28/11/87	$ 9.34
Levesque Plywood Limited	Hearst	Carpenters	245	01/06/84	31/05/87	$10.22
Northern Wood Preservers Ltd.	Thunder Bay	Canadian Paperworkers	270	16/05/84	15/05/87	$11.04
Weldwood of Canada Ltd.	Longlac	Carpenters	240	01/06/84	31/05/87	$10.34
Paper and Allied Industries						
Abitibi-Price Inc.	Ontario	Canadian Paperworkers	2421	01/05/84	30/04/87	$12.83
Boise Cascade Canada Limited	F.Frances/Kenora	Canadian Paperworkers	660	01/05/84	30/04/87	$12.83
		United Paperworkers	789	01/05/84	30/04/87	$12.83
Domtar Inc.	Cornwall	Canadian Paperworkers	1330	01/05/84	30/04/87	$11.56
	St. Catharines					
	Toronto					
	Red Rock	Canadian Paperworkers	500	01/05/84	30/04/87	$12.83
E.B. Eddy Forest Products Ltd.	Ottawa	Canadian Paperworkers	450	01/05/84	30/04/87	$12.07
	Espanola	Canadian Paperworkers	745	01/05/84	30/04/87	$12.83
Fraser Inc.	Thorold	Canadian Paperworkers	554	01/05/84	30/04/87	$11.97
Great Lakes Forest Products Ltd.	Dryden	Canadian Paperworkers	900	01/09/84	31/08/87	$12.83
	Thunder Bay	Canadian Paperworkers	1870	01/05/84	30/04/87	$12.83
James River-Marathon	Marathon	United Paperworkers	375	01/05/84	01/05/87	$12.83
Kimberly-Clark of Canada Ltd.	Terrace Bay	United Paperworkers	700	01/05/84	30/04/87	$12.83
		Electrical Workers	35			
Spruce Falls Power and Paper Co.	Kapuskasing	Canadian Paperworkers	1164	01/05/84	30/04/87	$12.83
St. Marys Paper Inc.	Sault Ste. Marie	Canadian Paperworkers	298	01/05/84	30/04/87	$12.52
Ontario Paper Co.	Thorold	Paperworkers and Longshoremen	596	01/05/84	30/04/87	$12.83

[a] Based on contracts settled as of December 1986, and settlements covering 200 or more Ontario employees

[b] Lowest hourly wage paid

Source: Labour Canada and the Ontario Ministry of Labour. Collective bargaining settlements and negotiations in Ontario. Monthly, various issues.

SECTION IX

MISCELLANEOUS RELATED DATA

Table 9.1. **Summary of forest management agreements.**

Company	Name and number of agreement	Date signed	Area profile (km^2)	
Abitibi-Price Inc.	Iroquois Falls Forest FMA No. 500200	28-04-80	productive	7 352.4
			unproductive	2 102.4
			Total	9 454.8
Great Lakes Forest Products Ltd.	English River Forest FMA No. 500300	20-06-80	productive	4 624.2
			unproductive	1 642.9
			Total	6 267.1
E.B. Eddy Forest Products Ltd.	Upper Spanish River Forest FMA No. 500400	11-08-80	productive	5 587.3
			unproductive	1 559.3
			Total	7 146.6
E.B. Eddy Forest Products Ltd.	Lower Spanish River Forest FMA No. 500500	11-08-80	productive	5 136.8
			unproductive	1 474.3
			Total	6 611.1
Spruce Falls Power and Paper Co. Ltd.	Gordon Cosens Forest FMA No. 500600	19-09-80	productive	13 867.9
			unproductive	2 236.2
			Total	16 104.1
Abitibi-Price Inc.	Spruce River Forest FMA No. 500700	15-12-81	productive	5 992.3
			unproductive	1 531.2
			Total	7 523.5
Ontario Paper Co.	Black River Forest FMA No. 500800	31-03-82	productive	2 198.2
			unproductive	354.0
			Total	2 552.2

(cont'd)

Table 9.1. Summary of forest management agreements (cont'd).

Company	Name and number of agreement	Date signed	Area profile (km^2)	
Domtar Inc.	Lake Nipigon Forest FMA No. 500900	31-03-82	productive	5 189.0
			unproductive	940.3
			Total	6 129.3
Ontario Paper Co.	Nagagami Forest FMA No. 501000	14-03-83	productive	3 819.3
			unproductive	676.8
			Total	4 496.1
Pineland Timber Co.	Pineland Forest FMA No. 501100	28-02-83	productive	2 649.0
			unproductive	529.0
			Total	3 178.3
Boise Cascade Can.	Seine River Forest FMA No. 501200	30-03-83	productive	1 890.9
			unproductive	799.7
			Total	2 690.6
Boise Cascade Can.	Manitou Forest FMA No. 501300	30-03-83	productive	2 735.9
			unproductive	1 174.2
			Total	3 910.1
Waferboard Corp.	Romeo Mallette Forest FMA No. 501400	21-02-83	productive	2 857.4
			unproductive	706.9
			Total	3 564.3
Abitibi-Price Inc.	White River Forest FMA No. 501500	16-06-83	productive	4 873.9
			unproductive	884.0
			Total	5 757.9

(cont'd)

Table 9.1. Summary of forest management agreements (cont'd).

Company	Name and number of agreeemnt	Date signed	Area profile (km^2)	
Ontario Paper Co.	Cochrane Forest FMA No. 501600	20-06-83	productive	534.5
			unproductive	127.0
			Total	661.5
Ontario Paper Co.	Gardiner Forest FMA No. 501700	20-06-83	productive	908.2
			unproductive	148.6
			Total	1 056.8
Ontario Paper Co.	Timmins Forest FMA No. 501800	20-06-83	productive	1 603.8
			unproductive	291.1
			Total	1 894.9
Boise Cascade Can.	East Patricia Forest FMA No. 501900	02-04-84	productive	2 319.7
			unproductive	918.1
			Total	3 237.8
Boise Cascade Can.	Lake of the Woods Forest FMA No. 502000	02-04-84	productive	2 240.8
			unproductive	1 033.8
			Total	3 274.6
Boise Cascade Can.	Packwash Forest FMA No. 502100	02-04-84	productive	2 982.8
			unproductive	994.4
			Total	3 977.2
Dubreuil Brothers Ltd.	Magpie Forest FMA No. 502200	24-02-84	productive	3 197.2
			unproductive	678.0
			Total	3 875.2

(cont'd)

Table 9.1. Summary of forest management agreements (cont'd).

Company	Name and number of agreement	Date signed	Area profile (km^2)	
Great Lakes Forest Products Ltd.	Trout Lake Forest FMA No. 502300	24-09-84	productive	7 365.8
			unproductive	2 392.7
			Total	9 758.5
Great Lakes Forest Products Ltd.	Dog River-Mattawin Forest FMA No. 502400	13-06-85	productive	6 773.0
			unproductive	1 962.6
			Total	8 735.6
Great Lakes Forest Products Ltd.	Bright Sands Forest FMA No. 502500	13-06-85	productive	3 087.8
			unproductive	1 277.3
			Total	4 365.1
Kimberly-Clark of Canada Ltd.	Nakina Forest FMA No. 502600	13-06-85	productive	7 241.4
			unproductive	1 817.5
			Total	9 058.9
Kimberly-Clark of Canada Ltd.	Longlac Forest FMA No. 502700	13-06-85	productive	8 570.8
			unproductive	1 436.0
			Total	10 006.8
Hearst Forest Management Inc.	Hearst Forest FMA No. 502800	06-11-86	productive	10 097.8
			unproductive	1 964.4
			Total	12 062.2
Great Lakes Forest Products Ltd.	Black Sturgeon Forest FMA No. 502900	17-07-86	productive	4 518.7
			unproductive	821.9
			Total	5 340.6

(cont'd)

Table 9.1. **Summary of forest management agreements** (concl.).

Company	Name and number of agreement	Date signed	Area profile (km^2)	
Superior Forest Management Ltd.	Superior Forest FMA No. 503000	28-05-87	productive	7 207.1
			unproductive	1 324.6
			Total	8 531.7
McKenzie Forest Products Inc.	Lac Seul Forest FMA No. 503100	23-07-87	productive	5 404.5
			unproductive	1 196.5
			Total	6 601.0

Source: Ontario Ministry of Natural Resources

Table 9.2. **Canada-Ontario Forest Resource Development Agreement.**

Duration: 1 April, 1984 to 31 March, 1989

Total cost: $150 million (cost-shared 50/50, Canada/Ontario)

Objectives: a) to encourage and support forest management activity in order to increase the sustainable supply of wood fibre from the forest resource and ensure the long-term viability and competitiveness of the forest industry in Ontario;

b) to improve and increase the utilization of the forest resource to enhance future forest industry development opportunities;

c) to contribute to the economic development of the Ontario forest sector, including the improvement of employment opportunities in the sector.

FUNDING LEVELS FOR PROGRAMS

Program	Federal		Provincial		
	Unilateral delivery	Cost-shared	Unilateral delivery	Cost-shared	Total
	----------		$000	----------	
1. Forest Management and Renewal Operations					
1.1 Intensive forest management	4 000	26 500	-	26 500	57 000
1.2 Stock production	-	20 000	-	20 000	40 000
1.3 Tree improvement	-	2 500	-	2 500	5 000
1.4 Private land forestry	4 000	2 000	-	2 000	8 000
1.5 Forest access	-	4 500	14 000	4 500	23 000
2. Forest Management and Renewal Support					
2.1 Management data, growth and yield studies, inventory	-	2 500	-	2 500	5 000
3. Innovative Programs					
3.1 Methodology to optimize investments	-	250	-	250	500
3.2 Integrated resource management	-	250	-	250	500
3.3 Research, development and application	4 000	1 000	-	1 000	6 000
3.4 Utilization, marketing and product development	-	500	-	500	1 000
4. Administration, Communications and Evaluation	2 000	1 000	-	1 000	4 000
	14 000	61 000	14 000	61 000	150 000

Source: Canada-Ontario Forest Resource Development Agreement.

Table 9.3. Canada-Ontario Forest Resource Development Agreement, actual fiscal expenditures, 1984-1985 to 1986-1987 ($'000).

Programs	1984-1985			1985-1986			1986-1987		
	Cost shared[a]	Direct delivery (federal)	Direct delivery (provincial)	Cost shared[a]	Direct delivery (federal)	Direct delivery (provincial)	Cost shared[a]	Direct delivery (federal)	Direct delivery (provincial)
1. Forest Management and Renewal Operations									
1.1 Intensive forest management	12 356	---	---	7 429	82	---	13 165	870	---
1.2 Stock production	2 144	---	---	9 391	---	---	10 125	---	---
1.3 Tree improvement	---	---	---	1 094	---	---	1 150	---	---
1.4 Private land forestry	22	---	---	1 324	187	---	2 560	516	---
1.5 Forest access	---	---	---	---	---	788	366	---	2 963
2. Forest Management and Renewal Support									
2.1 Management data, growth and yield studies, inventory	290	---	---	768	---	---	2 288	---	---
3. Innovative Programs									
3.1 Metholodogy to optimize investments	---	---	---	---	---	---	49	---	---
3.2 Integrated resource management	---	---	---	---	---	---	260	---	---
3.3 Research, development and application	---	---	---	273	156	---	546	826	---
3.4 Utilization, marketing and product development	---	---	---	80	---	---	6	---	---
4. Administration, Communications and Evaluation	4	110	---	233	363	---	431	466	---
Total	14 816	110	---	20 592	788	788	30 946	2,678	2 963

[a] Cost-shared 50/50 by the federal and provincial governments

Source: Canada-Ontario Forest Resource Development Agreement. Annual Reports, 1985-86 and 1986-87 (draft).

Table 9.4. **Summary of capital and repair expenditures in the forest industry in Ontario and Canada, 1970-1987 ($'000,000).**

	Ontario					
	Logging	Wood	Paper and allied	Total Ontario	Total Canada	Ontario as % of Canada
1970	26.5	30.3	162.7	219.5	1 155.7	19
1971	26.7	25.3	160.8	212.8	1 207.5	18
1972	31.5	39.8	132.7	204.0	1 212.1	17
1973	46.0	63.2	162.1	271.3	1 432.0	19
1974	58.6	92.2	251.6	402.4	1 803.4	22
1975	59.7	80.5	282.6	422.8	1 722.7	25
1976	54.7	58.6	392.4	505.7	2 013.9	25
1977	73.5	59.0	385.2	517.7	2 174.9	24
1978	80.0	69.8	289.3	439.1	2 353.9	19
1979	97.3	80.3	404.8	582.4	2 856.5	20
1980	126.4	104.7	530.7	761.8	3 657.3	21
1981	139.1	101.7	898.7	1 139.5	4 447.7	26
1982	81.6	80.0	810.0	971.6	3 765.8	26
1983	97.8	85.8	493.3	676.9	2 982.5	23
1984	120.4	105.8	608.7	834.9	3 437.5	24
1985	123.2	94.2	908.8	1 126.2	4 432.2	23
1986[a]	107.6	101.0	654.9	863.5	4 338.9	20
1987[b]	104.5	128.9	745.4	978.8	5 465.2	18

[a] Preliminary
[b] Forecast

Source: Statistics Canada. Catalogue No. 25-202.

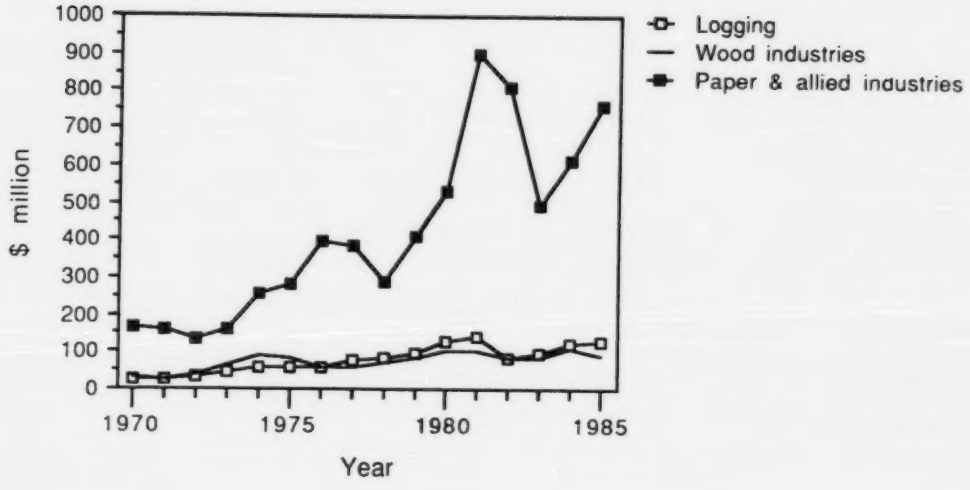


Figure 9. Forest industry capital and repair expenditures in Ontario, 1970-1985.

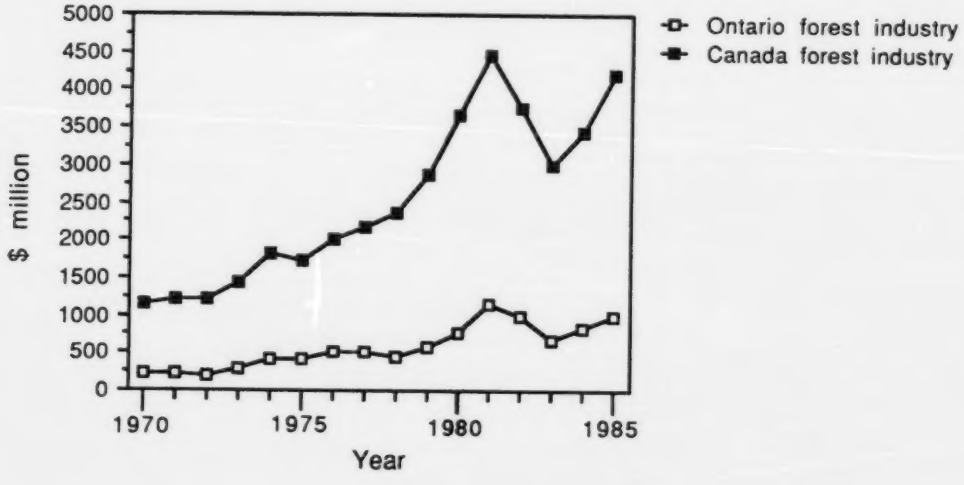


Figure 10. Forest industry capital and repair expenditures in Ontario and Canada, 1970-1985.

Source: Statistics Canada. Catalogue No. 25-202.

Table 9.5. **Corporate taxable income in the forest sector in Canada and Ontario, 1974-1985 ($'000).**

	Forestry		Wood industries		Paper and allied		Total manufacturing		Percentage[a]	
Year	Can.	Ont.	Can.	Ont.	Can.	Ont.	Can.	Ont.	Can.	Ont.
1974	42 160	4 172	182 922	37 986	744 411	261 061	6 279 829	2 972 730	14.8	10.1
1975	28 942	2 105	150 364	32 336	387 540	107 563	6 219 613	2 832 804	8.6	4.9
1976	43 436	2 753	245 446	35 027	375 114	70 511	5 850 503	2 771 188	10.6	3.8
1977	56 817	3 429	332 455	35 196	392 895	81 251	5 535 218	2 567 026	13.1	4.5
1978	65 406	5 573	554 759	52 091	644 059	151 874	6 762 325	2 965 755	17.7	6.9
1979	126 210	7 589	697 696	79 470	1 291 115	284 771	9 509 852	4 113 256	20.9	8.9
1980	147 949	11 374	318 650	57 150	1 378 262	409 936	10 863 269	4 622 537	15.6	10.1
1981	84 185	8 525	207 635	58 474	837 138	365 371	9 642 383	4 523 486	10.8	9.4
1982	75 200	9 983	133 859	46 402	336 566	108 618	6 204 744	3 022 859	7.6	5.1
1983	98 463	11 600	236 027	58 587	347 003	174 776	8 533 173	4 438 849	6.8	5.3
1984	127 827	18 196	265 182	65 467	680 540	275 447	12 185 743	6 831 500	7.8	5.0
1985[b]	133 008	17 239	310 842	73 533	710 496	333 357	12 088 306	6 651 409	8.4	6.1

[a] Wood industries and paper and allied industries as a percentage of total manufacturing corporate taxable income

[b] Prelminary

Source: Statistics Canada. Catalogue No. 61-208 and 61-208p.

Table 9.6. **Price indices for selected pulp and paper commodities, 1981-1987.**

Year	Fine paper writing and reprod'n (domestic)	Corrugated board and linerboard (domestic)	Bleached sulphite pulp (export)	Bleached sulphate pulp (export)	Unbleached sulphate pulp (export)	Newsprint (white) in rolls (export)
1981	100.0	100.0	100.0	100.0	100.0	100.0
1982	116.2	108.8	92.4	93.5	95.2	104.7
1983	122.1	116.3	79.7	80.6	77.6	98.7
1984	126.5	132.8	97.1	102.2	97.7	109.6
1985	129.9	139.9	83.7	86.9	85.1	119.7
1986	136.4	139.6	95.6	98.2	91.7	123.0
1987						
Q1[a]	143.4	147.8	111.5	115.6	106.7	124.2

[a] Estimate, first quarter

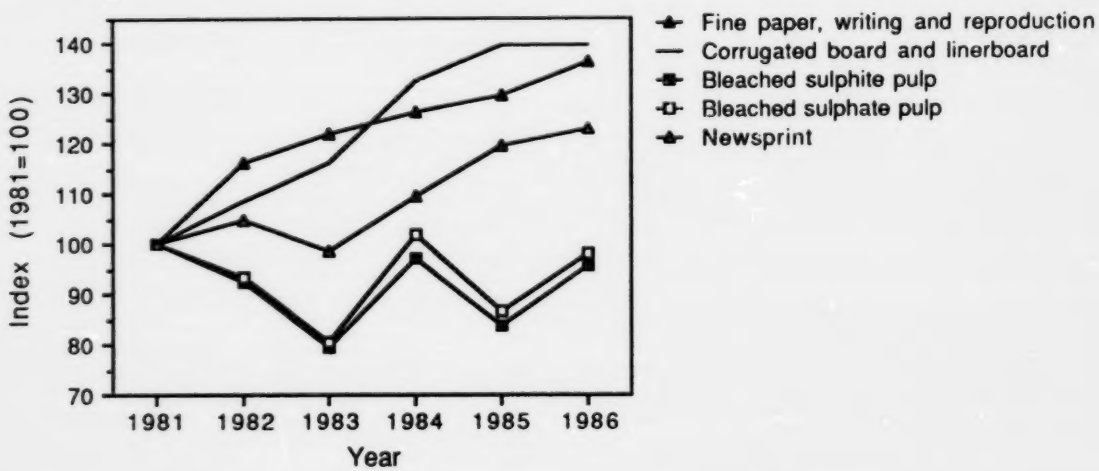


Figure 11. Price indices for selected pulp and paper commodities, 1981-1986.

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.7. **Selected forest industry selling price indices in Canada, 1981-1987.**

Year	Wood industries	Sawmills and planing mills	Veneer and plywood mills	Paper and allied industries	Pulp and paper mills	All manufacturing
1981	100.0	100.0	100.0	100.0	100.0	100.0
1982	99.6	98.5	93.2	103.3	101.3	106.7
1983	109.8	111.5	101.1	99.9	95.1	110.4
1984	107.6	106.6	97.4	111.2	108.5	115.4
1985	109.7	107.7	100.2	112.6	108.5	118.6
1986	118.9	117.6	115.4	117.3	113.9	119.6
1987 Q1[a]	119.9	116.5	118.1	124.3	121.6	120.3

[a] Estimate, first quarter

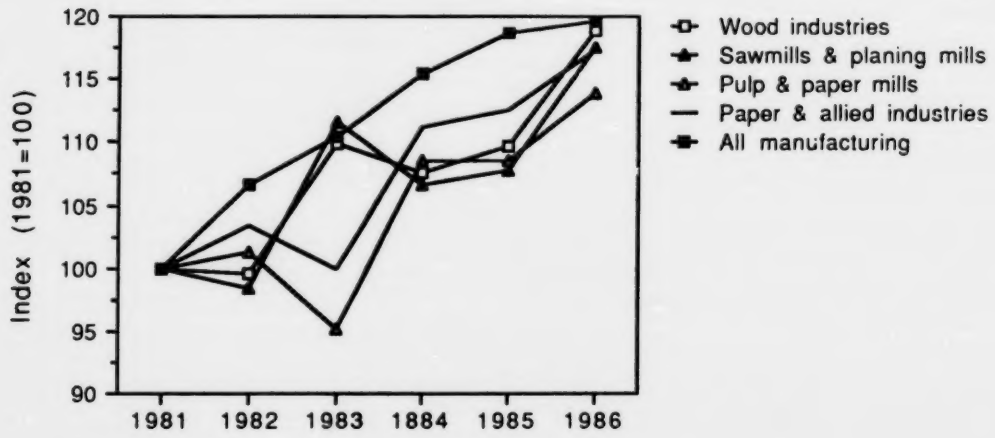


Figure 12. Selected forest industry selling price indices in Canada, 1981-1986.

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.8. **Industry price indices for selected forest products, 1981-1987.**

	Softwood lumber		Veneer and plywood		Wood pulp bleached paper grades for export		Newsprint
	Spruce	Jack pine	Birch veneer	Birch plywood	(Sulphate)	(Sulphite)	(Export)
1981	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1982	94.1	96.9	89.3	101.6	93.6	92.4	104.7
1983	118.1	121.9	98.7	105.3	80.9	79.7	98.7
1984	112.4	114.9	100.5	114.8	102.3	97.1	109.6
1985	118.1	109.8	85.1	113.6	87.3	83.7	119.7
1986	130.1	119.2	95.1	121.1	98.2	95.6	123.0
1987							
Q1[a]	120.7	117.4	101.3	121.5	115.5	111.5	124.2

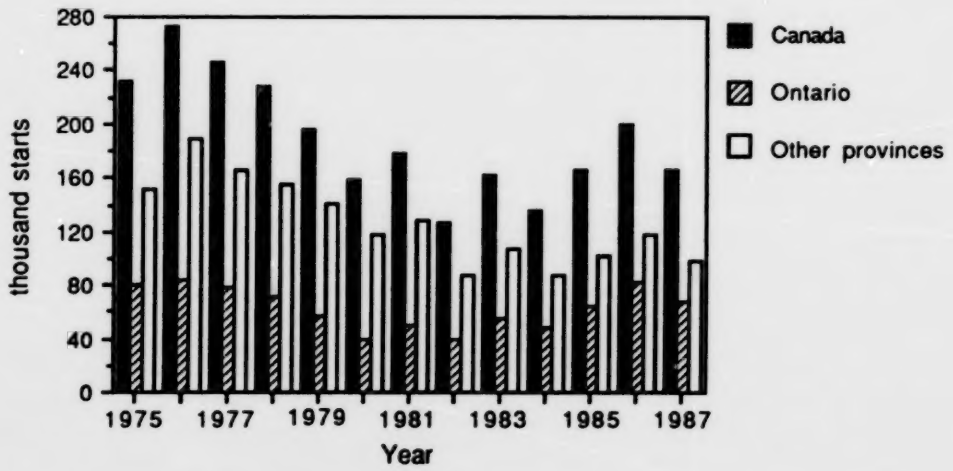
[a] Estimate, first quarter

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.9. Summary of housing starts,[a] by region, 1975-1987.

Period	Atlantic	Quebec	Ontario	Prairies	British Columbia	Canada
1975	19 538	54 741	79 968	43 057	34 152	231 456
1976	20 793	68 748	84 682	61 253	37 727	273 203
1977	16 346	57 580	79 130	60 310	32 358	245 724
1978	14 095	43 671	71 710	69 573	28 618	227 667
1979	13 626	41 730	56 887	57 461	27 345	197 049
1980	10 864	29 186	40 127	40 878	37 546	158 601
1981	9 316	29 645	50 161	47 266	41 585	177 973
1982	8 412	23 492	38 508	35 641	19 807	125 860
1983	14 393	40 318	54 939	30 388	22 607	162 645
1984	10 834	41 902	48 171	17 824	16 169	134 900
1985	14 707	48 031	64 871	20 248	17 969	165 826
1986	15 609	60 348	81 470	21 671	20 687	199 785
1987						
1st quarter	9 000	71 000	103 000	24 000	26 000	233 000

[a] Starts in urban centres of 10 000 population and over, seasonally adjusted at annual rates.



Note: Seasonally adjusted at annual rates
1987 forecast by Central Mortgage and Housing Corporation.

Figure 13. Housing starts in Canada and Ontario, 1975-1987.

Source: Statistics Canada. Catalogue No. 64-002.

Table 9.10. **Population by selected northern Ontario census divisions, 1981 and 1986.**

Census divisions	1981 population	1986 population[a]	Percentage change from 1981 to 1986
Algoma District	133 553	130 820	- 2.0
Cochrane District	96 875	92 983	- 4.0
Kenora District	59 421	53 625	- 9.8
Manitoulin District	11 001	9 741	- 11.5
Nipissing District	80 268	78 277	- 2.5
Parry Sound District	33 528	33 521	0.0
Rainy River District	22 798	22 726	- 0.3
Sudbury District	27 068	25 568	- 5.5
Sudbury Regional Municipality	159 779	151 552	- 5.1
Thunder Bay District	153 997	154 449	0.3
Timiskaming District	41 288	39 956	- 3.2
Northern Ontario	819 576	793 218	- 3.2
Southern Ontario	7,805 531	8 249 215	5.7
Ontario	8,625 107	9 042 433	4.8

[a] Interim estimate

Source: Statistics Canada, 1986 Census of Canada, interim population and dwelling counts.

Table 9.11. **Population of selected northern Ontario communities, 1981 and 1986.**

Community	1981 population	1986 population[a]	Percentage change from 1981 to 1986
Atikokan	4 452	4 287	- 3.7
Blind River	3 444	3 506	1.8
Dryden	6 640	6 421	- 3.3
Dubreuilville	988	953	- 3.5
Elliot Lake	16 723	17 784	6.3
Espanola	5 836	5 464	- 6.4
Fort Frances	8 837	8 801	- 0.4
Hearst	5 533	5 513	- 0.4
Iroquois Falls	6 339	6 146	- 3.0
Kapuskasing	12 014	11 303	- 5.9
Kenora	9 817	9 553	- 2.7
Kirkland Lake	12 219	11 481	- 6.0
Marathon	2 277	3 400	49.3
New Liskeard	5 551	5 259	- 5.3
Nipigon/Red Rock	4 129	3 917	- 5.1
North Bay	51 268	50 082	- 2.3
Sault Ste. Marie	82 697	80 331	- 2.9
Sioux Lookout	3 074	3 077	0.1
Smooth Rock Falls	2 352	2 193	- 6.8
Sturgeon Falls	6 045	5 853	- 3.2
Sudbury	91 829	88 117	- 4.0
Thessalon	1 620	1 511	- 6.7
Thunder Bay	112 486	111 362	- 1.0
Timmins	46 114	46 282	0.4

[a] Interim estimate

Source: Statistics Canada. 1986 Census of Canada, interim population and dwelling counts.

APPENDIX

Ontario Ministry of Natural Resources Administrative Regions